

tactggagaa agtagagttg aaaccaatca ttcaacatca tggagtg 407

<210> 2317

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D2

<400> 2317

aataaaaattg ccatagaatc cctgaacgaa ggtagaattt gcatacgagc tcataatgact 60

ggacttgcgg aaggtgcaat ggatattata tttccatatac tacatgagac gaaacagttt 120

ggctcccgta tcggtgattt tcaaggagtc cagtttcagt atgcacaaac tcgagttgaa 180

ttacaaggcag cgcgagcgca tgtttacaac gctgctcgta tgaatgatgc aagtatatct 240

attcggaaagg aagcagcctt cgccaaatac tacagtgcgg aagttgccga aagaattgct 300

tccaaatgta ttgacttggc tggaggaatg ggattcgtga aggaatttgg tttggaaaaaa 360

tattacagag atgtgaaaat acgacacatt tatgaaggca ccgataaatat ccagttgcaa 420

acgata 426

<210> 2318

<211> 437

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D4

<400> 2318

acgcgtccag tcaacgtcga atttccttc gacttggcg ccaatcttct tcataatctt 60

agaatgaaat tgaatatcgc taatcccgct actgggtgtc agaaggcatat agaagtggac 120

gacgaaagaa aacttcatgc ttttttgac aaaagactgg tgcaagatgt cccaggagac 180

gctctaagag acgaatttaa cggatatatt ttcaagatca tgggtggaca agataaggaa 240

ggattcgcta tcaaacaagg actcttgacc actggtcgtg taagactctt attaaagaaa 300

ggagactcgg gttgccgagg gtactgtatg agagactgtg aaagaagacg aaatagcggt 360

cgcggttgca ttgttatctcc agatatacgat gtgttgaacc tcataatctt gaggaaaggc 420

aataggata ttccctgc 437

<210> 2319  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-046-Q1-E1-D6  
  
<400> 2319  
  
cccacgcgtc cgcccacgctc tccgcttatac ggagaacagg catgtctaac tggaaaggaac 60  
gactagactc gtggattgga aagagtagca gtgaatattc caaagggtggc aactcttcgc 120  
cagaatgggg ttcatctcct aaattggta tcagtccttc gaaaactaagc aaaagtcatc 180  
gcgcctaaga agtttggagt aaaacagtgc atccttgggg gcgttcttac tcaggaaaga 240  
tacgttatga caccgtggat aaggacacag agaaagacac aagtatattt gagatacatg 300  
atctgtccaa gaaacagagt ggcattcaat aagaacagac tttgtgagtt ttcaatacaa 360  
tacttgctt gttgttataa ttttcataca tgagtgtaca tgctgttttggac 416  
  
<210> 2320  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-046-Q1-E1-D7  
  
<400> 2320  
  
cccacgcgtc cgcgctggtc aagatggcct tgtgcaagtc aacaaacata gaaaagtaaa 60  
gagattgcaa gaagataata ttttgaatag agcaactatca caaccaggag atgtatttct 120  
tgtctttgc aacatccagt tgggtgaa tgcagaaaga gctattatag gaaatattac 180  
ttgtccagaa agtacatcaat tgtgtcgctt attagctgga catatagcgg tttggttcga 240  
tgaacatttgc gatgactttc gtttggaaagc tatcttggga gcactattgt gtacttggta 300  
ttgtgagtgg aagcgttttg aaggagaatt ggggtacaa gaatggaaatg aattggagaa 360  
gatatcttcc ttagataactt ggaagcttgc gcttggtaa agacaaagag tggataat 420  
  
<210> 2321  
<211> 277  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E1  
<400> 2321

actgtagtc tctttgcgc gccaaagatg caacaactgg aaatgaggca catatagtta 60  
tcgatgttgg taaattctc tatgaaaagtg cactagatg gtttccaaaa tatcaattgc 120  
gcaatatcga tgcagttta ctgacgcatt accacgcaga tcattgtaat ggactagatg 180  
atttgagaga ttttactttt catatgagag acaactgttg tccacttcca gtatactg 240  
aatgacagac ttttcgtaga atacaagcaa gttttcc 277

<210> 2322  
<211> 398  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-046-Q1-E1-E10  
<400> 2322

aggttccaca ggtgaagtca tgggaatcga cttttcttat ccagcggcat ttgtgaaagc 60  
acaaatggca gcaggaactc ctcttccctt ggaaggaacg atattactt ctttggctga 120  
agaagataag aaccaagcag ttgtcttagc ccaagacttt atagatttgg gttttcgtat 180  
tttagctact cgaggaactt atgtgcattt catagcagaa ggaatgaatc cttctcaagt 240  
agaaatggca ttcaaaatattt gagaaggacg tccaaatattt gtggaccgca tcaagaatcg 300  
agaaatccaa ttgtttattt tgacaccggg aatagacaaa gataccgcaa atgagaaaca 360  
agtacgaagg acaagcgtt agtttaaagt gcctatga 398

<210> 2323  
<211> 329  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E3  
<400> 2323

caactttca gagttcaat tacatactct tggcacattt attatccatg aagtatgtta 60  
ttggggtagt tatgtgccgt ttctattgtt ggttgcatt ccgtactttc gaaggtggaa 120

aatacaaaga gacaaggta atgatgcctc cactcagtgg aactgtattt taggagtatt 180  
aagaaaatcat tttttgttag tggtgcctct tattattgtg acgcatccct tttttgcgtg 240  
gatggaaacg cgagatgagt taccgctgcc ctctgtcgga gagattgctt ctcagaatgtt 300  
tttattttt gtcatcgaag actttattt 329

<210> 2324

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E4

<400> 2324

acccaagcgt ccgcccacgc gtccggtaat atccaaagca attcctgctg tcataagagaa 60  
acttgtttcg ttgttatatg caatgataga acatcttcca gtagaaagca aagtagtaaa 120  
gtcgtctcta gcggaaatat gtagggcct tgacggcgcc tcaagttgtg taagctacaa 180  
ttggttgacg ttgttaattt tgccaggcgt agatataattt gcacatcgaa gtcctgaatt 240  
gctagcttg ttgtggcgtt gtggatggaa atatatgcag aatgataactt attctgttga 300  
agatgcgaag gcaatgaacc tggcttggat gcbaatttat atacgcttaa tggccatatc 360  
gaagatgagt tctcctcaaa caagtgttcg taaaaagtat ttgcacactt ttcatcataa 420  
aggtgccat 429

<210> 2325

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E9

<400> 2325

gaccacacacg tcagccccacg cgtccggtaa cgttgttagaa atttcgtctt gttggcggt 60  
tcagtttgtt ttaagtacca tgtcagaggc tccgctttt tcggatagac ccataaatgt 120  
ttgtgttaact ggtgctgctg gtcaaatacg ttattcactt ttgccttga ttgccgggtgg 180  
aaaagtattt ggaccgcagc aacttgtgtc tttaagattt ctcgagattt aatctgcact 240  
tcctgtcctt caacgagttt ttaaggagct cgaagattgt gccttcctt tggcacattc 300

cattttaca acttcagacg caaaggaagc tttccgttcc tgtaacattt ccgtgctatt 360  
atgtgccttt ccaacgaaac aaggaatgga aagaaacgtat ttgcttagaaa agaatg 416

<210> 2326

<211> 308

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F11

<400> 2326

agcccacgacg tccgcccacg cgtccgcgga cgccgtgggtt cagtcattca tgtctgcccc 60  
aacccaagcaa acaccccaa agaaacttcg aggtgcggaa aaagccgtat tggtatggtt 120  
tttaatagat gccgctaccc atctctttt tgagctccct tttgtattcc attcttaac 180  
aaccacggtg aaccaagcaa cccattggtc tgccatatta tggaaggaat atgctaaagc 240  
ggatccacgt tgggttagat ttcatgactg cacggtggcc ttggaagtgc ctacctctaa 300  
tttaaggg 308

<210> 2327

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F3

<400> 2327

aagttatgag gagaaggaaa gttgcaagtc aaagcaactc atcctcgata tgctcttgg 60  
aaattcggca ggtctgtttc agaatgtttt tccgtgacat gtctatgtgg aaaagaagag 120  
agaggatatt atatctcaa gatgatctac ccgtgatgga ttacaaattc atcttggta 180  
atttctgaac attcattttgg ttcccttata ttggaaaact ccgatgaaaa gttcgcagat 240  
aaattcagta aaaagtataa cagcagaata ctctaactgg aaacatatat cgaaatttgc 300  
gttatgtgaa aaaacgagtg gagtttcaa agaaccgttg cagtcttgat gtatcttacg 360  
ttcattagaa tagagaaatg agtaacagaa agaaactttg cagaag 406

<210> 2328

<211> 295

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F5

<400> 2328

acccacgagt caagttcca atgctggact ccatatgtt accaaaatga tggctttgga 60  
atggggtcct tatgatatgc ataccaatgc catcgtaacct atggtaattt ggacagaaat 120  
ggcacagcac gtgtgggtg ctccctgagaa atactatcta tgttggcatg tattctaccc 180  
catcgtttg tacatcctgt agatgttaca tacttgaacg tactttggc tggacaagtc 240  
tcggatatga tttgtggaca gagtattgct gtgaatggtg gattaattgt gcatt 295

<210> 2329

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G1

<400> 2329

gacacagcct gactttcatg gaatagactt tgtaacgctt ttggcttatt tgagctata 60  
gtcgattatc tccctggcgt ttactttct gactggttat atcggatttc ttgcattgtt 120  
ctggtttacg cgtaaaatat attctgctat tcgtgtggac tgagattgct tttcgatgt 180  
tttttgaga gaaaagataa agttggcata ttgagagact tgaaaaaaaaaaa 240  
aaag 244

<210> 2330

<211> 291

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G10

<400> 2330

ggctcgaccc acacgtcagc ggacgcgtgg ggaaagtccg agttccaact catcgaaaca 60  
gtcgcttcaa gatatagttag caaccagtct tcgagatcca cgagtggttg attggtgcaa 120  
aattatttta caaggagttt ctatcctagt ctttcctttt gatatcatt taccatctgg 180  
tgttggttc ttctggacgg tgaactcttt gttgaattca ttgcagcagt ttttgctaat 240

aggtagagga agacgatata tcggacttca ggaaagaaca gaattgttg c

291

<210> 2331  
<211> 162  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G12

<400> 2331

gacccacacg taagcttgg tgcgtcatgg tggtggagta tataaaggca atggcgtca 60  
ccaaataaaat aaagaagtgt aaaaaaatacg aaaaacataa aaaacaaaaa aaaaatgtaa 120  
gaaatggata aaataaaaaa ccaataaggg aagtgcgtcc ag 162

<210> 2332  
<211> 386  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-046-Q1-E1-G3

<400> 2332

gtgtttctac cagatcaagg ctaacatgg gtgtactgc ttcaattgca aaggcttgg 60  
ctgacctgga tcatttacgt aatggcaagg ataaagcgct cttgaatttgc ccccaagttt 120  
tc当地atggcaagg ataaagcgct cttgaatttgc ccccaagttt 180  
ccccaggtaa agctgagaga attgcaagac aaagagcaag atgtatccgt agtgtccaag 240  
atgacgtcgt accagaggaa cccaaatggc tagcaaagggt tcccaaacgg gagcgagatg 300  
ggagagcagc tttcgtcct tcaaagaagt caaaccgtt ctccctcgga gccacttttag 360  
aagatgtcct tctcaaaatt ccgaac 386

<210> 2333  
<211> 450  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G4

<400> 2333

cggccggcc cacgcgtcca cccaaagcgct cgaaggattt gaaatctgt tgagcttggc 60

agactatgtt atcacaaatg cagaattcc tttggagtat tttggtcagt tgaatacgtt 120  
aatggcttg gaaaagcttc tggattctta tcctgccaga tttgtcatat ctacgttagg 180  
gaaggaagga tgcgttctaa tgagtcgtct ggatgattcg gaagcagaac aaacgcagaa 240  
aacaaaccaca aatttctcta cgttccat tatggcagta aagacaacat ttccgttgcc 300  
gacgcttgc agaacagaat gtatccaaa gtatcgagtg atagactgtc cttgctggcc 360  
tgtcgaaagt gttgtcgata caactggagc tggagacgcc tttattggag gtattattta 420  
tgccataactt caccattta gtcaagaaca 450

<210> 2334

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H1

<400> 2334

agtcatccaa ctcagcgaaa cagcaataac tgtaaaaatg cagtaaacta gcagtatgac 60  
ggaaaagaccc cacaattcct gactagatag gttaaggag gagagagaat catgaagtat 120  
aagaagtggg gtaagagatg aaagaccact gcatgaggat aaggaatcta actgagtaag 180  
gaaaataagc ttaagctact ttggctgggg aagtaaagcc taagaaagag taaattatgc 240  
aagcaaaggc atgagagaag tataatagca caagcatgct tgaagaaaaa gaaagagatt 300  
tcagaaaggg aagaaaagtc agctatagag aacaagtgaa ggagaactca caaagaagag 360  
agcaccgaac gatcgaagaa gaaactttgg ggttaacacg ttaatgtggt gttagagaac 420  
gtatca 426

<210> 2335

<211> 363

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H11

<400> 2335

aggttgcgtg acgccgtcg tgggttttgcgtggatct tcatggctgt caagagcaaa 60  
cgtgtacgca acgttaagtaa gggcaaaaag ccgactatca actacaccat cgactgtagt 120

aatccagtag aggacggtat attcgatgtt gcttcggcg agaagtttt acaagatcgc 180  
ataaaggttg atggtaaacc cggcaacttg ggaaacgtaa tttaaagttac tagaaaggat 240  
gccaaagtgg aagtgtcatc agagattcga ctggcgaaac gctacttgaa atacttgaca 300  
aagaaatatac tgaagaaaaca acagcttcct gaatggctcc acgttaattgc atcgagcaaa 360  
aat 363

<210> 2336  
<211> 386  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-046-Q1-E1-H12  
  
<400> 2336  
  
gaccacacg tccgggttga agagactagg tgcaatata tttgtcgatc agtcaccatt 60  
gcaattgcag tcgagtgtatg gctcggtggaa acttgggtcc aaaaccttgtt ccgattatgc 120  
ttctctgggtt catttggaga ccttattaaa gatacaacca gaagctgtct atcaacaaaa 180  
tgtgcacgat tgtctgttcc gtgagccaag taaganagaa atcgactatt tcgtctctct 240  
ctccaaagaa gcagacgcag agttttggc caagttgatc aacgaccacg caatggccga 300  
ctggagacccg actttgccgc atttgcaatg tccttgcgtc gttatctatg gagaacaaag 360  
taaaatattt cctgaagatg caactt 386

<210> 2337  
<211> 447  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-046-Q1-E1-H2  
  
<400> 2337  
  
ggtaggttc acgcggcccg agccacgcgt caggatgaaa tgcaagatc tctagagaaa 60  
ggcaagaaaag aaaagaaaagg aagacacagt aaatgaggcg agaaagcata ngtgaaa 120  
cggtttacga acccggttag tctaaggcgt aaaagaaaaga atgagtaaga aaaaaaggag 180  
tcattccacc aggggagtaa aggcgcaaga aagaaaccca aagcaattga cggttacgg 240

aaaaagggtt ggatcacgta aattaatccg atataaaccg agaaccttac ctctccaaga 300  
aggtgttgcg cggctgtcga aagaacgtgc tgtgaagtga gagaacgtac gagaaagcca 360  
agtgaggaaa agaaggcaag tagagggcgg cccgagaaag gagaaggcgt aagacgtgat 420  
acagagaaaag aggaaaggat gaaatgc 447

<210> 2338  
<211> 446  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-046-Q1-E1-H3

<400> 2338

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gggaaccaat gggaggaaaa attataaaat tggttgcaaa aattcaacat aatcccaatg 120  
gcgttccctt caagttaat aattaaaaat gctgccaatg tattccaagc attgggcgat 180  
attcttggga gttgttcaa ggaaaatctc gctcagtcat canctgaaca ttctgtcatcc 240  
gaaaactagt tgcaataact gaacaatatt ttgcaaaaga gtttgaaaca tcaacatgaa 300  
gacaatgtgc agatTTTtag aaagaccttg ttcaagaaac atggcagcgg atcattattg 360  
aagcaacgga ctttacagca ttgcacagc gctgtgaatt gttggcaaatt tcctcgtcta 420  
ctttgccaca agatTTTcga cagtct 446

<210> 2339  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H4

<400> 2339

aattcacgag gaacgagcgt gaacgaagga ggaatctcaa gtaatcgagg aagaaaaaagc 60  
ttcggtgaaa gcgtgaacgg atttgtaca cactgcccgt caagttctgg aagtgtgcta 120  
agaataagca ggaaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 180  
aaaaaaaaat aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaca aaaaaaaaaacaa aaaaaataaaa 240

aaaaaaaaat aaaaacaata aaaaataaca taaaaaaaca ataaaaaaaaa aaatcacaat 300  
actaaacaca aaacaagtaa aagggcagca a 331

<210> 2340  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-046-Q1-E1-H5  
  
<400> 2340

acccacgcgt ccgattttt gttgtggagt cgggttgtt ggtgtacag ccttaatttt 60  
gtgggtgtta taaatcatcc aaggctaaat acgtaaagag gaccgaatca gggtaagagg 120  
tagaggagca agaagagaag agagaatgct gggtggagta gcgaaacaag agaaggaaag 180  
taaaaggtaa gaaagaggaa aggttacga gagaaggaag tagaaagaag agagtgttaag 240  
gcggcgcat aatagaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 300  
gagaaaaagc ccagaagcca agataaggtt tcaaagtaaa gaaagaacga aaacgagaag 360  
aagagacggt acgcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 420  
agaa 424

<210> 2341  
<211> 261  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-A1  
  
<400> 2341

agactgcacg tggacacggc atctaactga gtaagtgaaa tagactatga cgaacttggc 60  
tggggaagta gagcctaaca gtgagtaaat tacgcatgca aaggctatta cgagaagtag 120  
taatagcagt tagcatgact tgtaacgaaa gaagactcga gatttcaaattt ggcgcaatga 180  
atactcagcg ttatcaaaca agtgtacgtg aactcatgga gcagtttatca ccgtacgatc 240  
gaataatcaa cttgggggt a 261

<210> 2342  
<211> 387  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-A10  
<400> 2342

cttcggccaa ggcgtcgccc cacgcttccg aaaacttcaa gtgattgaaa ctttcgtc 60  
tcaagatatt atagctgatg cgtttgcgg agtcggacct tttgtgattc cagctgcaaa 120  
acttaaacgc tgtgttgccc ttggaaatga cctgaatccc gtatcagttg aatttatgtc 180  
. gaggaatatt ctaagaaatg gtgtatctga attggttaca acatattgtt tagatgcctg 240  
gtccttata gaacagccta tacgaaaaga aatatatttt acgaaactta ttatgaacta 300  
tccttcgagt agcagtgatt tcctacgtgt cctcaaagggt ctgtacacag gtcgagaaaa 360  
tgcggcgcta cctactagat attgtta 387

<210> 2343  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-A11  
<400> 2343

gaccacacgacg tcagcgacg cttggcgga cgcttggggg aaaaatgacc accacaacga 60  
cagaaaaaag aattgcgtat tatgtgcacc gttggacagc aaccttgtac aagtttcttc 120  
aaaagattac caacctagta ttctcttctt tattccggag caacaaaaca tattccatac 180  
cttgtaaaga cttggaacag ttttccata cgtcggtca tcaagggtcca caaaccgtac 240  
agcaactcaa gtcaaggctg caacacacac ccaactgttc tgtcatctat catatgatac 300  
aaaataaccc gggatttgat gaagaatggg tgagcaattt tatcttgaa aagacagtga 360  
agttgcgtca aagtccggaa aaggtcaaag agtaaggact gtttt 405

<210> 2344  
<211> 402  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-A12  
<400> 2344

gaacgtcaaa aaaaattgaa ggaagaaaag gagttggaaa aaaccgggt aaaaaaagat 60  
gaggaggatg acaatattct ttgaaaataa ttttgttga taataaaaga taaagaatgt 120  
tttgtggatt gtatggaagt tttgcaatga gtagaacgcc aacaaggaat atcgttatgc 180  
gtatgtgtat acggaacggc aatggattgt aactgatagc aaagctaagc cttgcggAAC 240  
ttttcaaaag ccatgttcct ttttttcga tacgaatttt aatttgaca acctaagAG 300  
gtttccaaaa aagtagggaa aagtcaggac agacacttgg aagtgtcgca ctccttggca 360  
gatgtgtggT tggtttcccg ccttgttatgg aaagttgtgc tg 402

<210> 2345  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A2

<400> 2345

agcaaacatt tagaacaagg tatgaaggaa gcggaaagaa cgcaacggA aggacaagAA 60  
ttgcacaatg ctttcttcca agattctaa accttaagcc gagactatgt gaaacgaaga 120  
gatttatctt gtgagaaAGC aactcaagAA ttgacgagTT gtaagaactt gactcaagAA 180  
tgtatcgAAA aaggcataga aaaggacaca agcacagcag caaaggTgAA agatggatta 240  
tctgaagAAA agtcagCTT gcaagATTc cataagaAGC aagttagAGT tgcataat 300  
atagcgggtt ccgtagatGA attgatgact tctggattgc gagtagatga accgactAGT 360  
actactcctc gtaagagaca gtggattat cctcaagaat tgggacgAAC 410

<210> 2346  
<211> 390  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A3

<400> 2346

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tgggggtcta tgaaaatAT ggaagatggg aaatccgttT gatgcAACGA gctattcgat 120  
tgctattagg aaaggAAAAG gaaaACTggA aacaaggAGT ggacattggA cgcaaattat 180

tttctcgct tccaccagat aaccgaatac gcaagagaga agagggaaaga tggtaagag 240  
acaataagca agatgcgaca tttgccata tgtatgttca cccgcaagaa gtggatttt 300  
ctattgattc ctatattcat atgatcgaca gtagcaactt gcagtttta ggattctcaa 360  
atcctaagt atttgatatt tggagactga 390

<210> 2347  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A5  
<400> 2347

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caggtgaaaa aagatggcag ttattcaaaa gactggaaaa agagaatgct actgcccgt 120  
ttttcttaca aaacaaagct attttccag gtgctagagt tttgaaactg gtttgtgtt 180  
ccggagaaac cactttgcaa gtagctgcga aagtaagagg ttattctgta ctttcaggag 240  
agaccacggg ggaagtggtg gataaattgt tggatatatt acgtccatct agtcaccagg 300  
aaggaaact ggtatggtacc agcaatagtg gtcggtagt aggtgttagat atcgccaaag 360  
gaatgctgaa tgtgttcaaa ag 382

<210> 2348  
<211> 397  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A6  
<400> 2348

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gggaggtgat gaagaatggc agatattcga aatactggta agagagagtg ctactgcccgt 120  
ctttttctta cagtacatgg ctatTTTCC aggtgctaga gttttggaac tggcttgtgg 180  
ttccggagaa accactttgc aagttagctgc gaaagtaaga gtttattctg tacttcagg 240  
agagaccacg gggaaagtgg tggataaatt gttggatata ttacgtccat ctatgcacca 300  
cgaaggaaaa ctggatggta ccagcaatag tggttcggtt gtacgtgtat atatcgccaa 360

aggaatgctg aatgtgttca aaagcacgtt ggaaaat

397

<210> 2349

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A7

<400> 2349

cggacgcgtg ggaacaacat gccacagcat tcacatctttgt ccatgggtgc ctctttgcgt 60

tccaaagctcc tttcaacttag actcgagctg tcgcaattgc aacaacaaag aaaagagttg 120

gaagaacaag tgcaagtatt gaaccaaacc aatcaacagt tggcatccac cgtcaaagaa 180

tataaaacga gaatatacga gttggagcaa acagcagatg ctcaaaaaca acaaatacag 240

tcgctcgaag cctgtaaaat acaaatacgaa gaagaaatag agtcattgga gaaacatata 300

ggaagtggat actttaatcc gagatataca aaagtgttgc atctcaaagg aggacctcct 360

ctttccaaaa 370

<210> 2350

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A8

<400> 2350

agcccacgcg tccgccccacg cgccgaacc aatgtcgccg aaaggttgctg gagtttgctg 60

ctcttgctgg agatttcaat cgtgctattg acttgggttga aaaggttgcc tccgtatccc 120

ttgaaaataa gctactccgc tatggtgcca aagagttct tctccgagct ggactttgca 180

gagtctgtct cgagacgaa gtgggtgctt ctcgtgcttt ggaaaagtac aaatccttag 240

attccagttt taatgacagt cgtgaagcca agcttcttga gaaagtaatt ttggcagttc 300

aagaaaatga tgaagaagcg ttcactgtatc cagttgcggg gtacgattct ttgtccaagc 360

ttgatccgtg gaagacgtct atcttggta aaattaagaa aaatctc 407

<210> 2351

<211> 346

<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-A9  
<400> 2351

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accaactaag aagactgtct ttgtccactt ttattgtggc ctatcctaata tctggacaag 120  
tcttatgatac tgtgagaaaa gagtgaggatc gagaaaaataa tatttctata gaacactggg 180  
ttgattatgt agttggatgt ggtgcagata tcaatggtgg ttgttgcgt acaactcctt 240  
agcatattca gtgtctgaga aatcgagtga gttgttctcc aaaagacgaa cggaacacaaa 300  
gtctactata tgcttgaatc tcatacgtatc aaaacacacgtc cggctt 346

<210> 2352  
<211> 325  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-B1  
  
<400> 2352  
  
agagcaagcg tgaaccgtga gggtagttca tcattggatga gacaacacgt caagatggtg 60  
tttagtgcttc tctttggact gttcgtcgct tcctctacac agttatttta gcattctctg 120  
gcattcagcat tggtttggat tgacgtaaag cagacaagat atgaaacgac agcttattct 180  
atgatgggaa gtacattacc ttttgtgctg attctgccgc ttctgttcta taaggagggg 240  
accatggagc gtgttagatat gtcattggcgt tggcgtctat aagtttattt ctagtccttt 300  
tcttgtggct ttttacattt gtaga 325

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<210>      2353
<211>      424
<212>      DNA
<213>      Cyanidium caldarium

<223>      Clone ID: LIB190-047-Q1-E1-B10

<400>      2353

gacccacgcg ttcaggaaac agacagatgg ccaacgctgg tcaaaaatggc ctttgtcaat 60
tcaacaaaca tagaaaaagt aagagattgc aagaagataa tattttgaat agagcactat 120
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cacaaccagg agatgtatTTT ctgtgctttt gcaacatcca gttgtggtg aatgcagaaa 180  
gagctattat aggaaatatt acttgtccag aaagtatcga attgtgtcgt ctattagctg 240  
gacatatagc agtttggttc gatgaacatt tggatgactt tcgttggaa gctatctgg 300  
gagcactatt gtgtacttgt tattgtgagt ggaagcgTTT tgaaggagaa ttgggggtac 360  
aagaatggaa tgaattggag aagatATCTT ccttagatac ttggaagctt gtgcttggta 420  
caag 424

<210> 2354

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B12

<400> 2354

cccacgcttc agattagcta aaggaaatgg tcttccaagg tcggaaggaa ttacttcaa 60  
aagggtgcag gataataaaag gtcgtcaaAT gactgcgcct gatcagaatc gacaaggcct 120  
tggaggtgct ccttcttcac aaggacggaa tcgccaaggT gaggaaccag caggaggcag 180  
aggaccctcc aagtggagag gaggttcttc tgatagagga ggaggaggag gtagaggagg 240  
aggcagagga aatagtcgag gaagcagtcg cggtggtagt tttcgaggTC caatgaataa 300  
taatagacag gaaagagatg cttcacaagg tttcgccaac tctgcaaAGC gtgggtggag 360  
agaccgaaca aatgataaaa gtgcgacta 389

<210> 2355

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B2

<400> 2355

gaccCACGCG tcaggatatt tctcgTcttc tttccccctct tctacaaaat gtggaacagc 60  
caaATgactc gtttatagca cggTattatg cgcaggaagg aagtgcgcTT ggaacaaAGC 120  
atcaggagac tttcgcaag ttaggaactg agagcttggA ggatacagtt gcggaAGccc 180  
tttatgaact ttataagatg atgactgtgt ggaatcagga ccttgaagca cgtgagcacc 240

agtgcgaatac gaaggaagag ctcgaaaaca cagcaaagtc tcacgccctt ttctgctata 300  
ttctaaaaat attgaagaaa ttttgcaac tgtgggtgt cgaatcttt tcggacagtg 360  
gaaagagagt ttggcaata tacgactcgt tacagagctt  
400

<210> 2356  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B3  
<400> 2356

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caaagaagac gaacaagaag aaatgcaaag tgaagagttt acaaggagtt gttcggattt 120  
tcttcttcg tattcttcg aaatggtaga ctgtataacc tcattgacgc atgacgacga 180  
agagaaagag tcgttcgtgg cttctcgact tggacaaaaa ctggaaaga tgctggaaag 240  
ttatgcctcg cattgtatgt gaaaaataaa gactttgtt tttcgtcatg ttccggacga 300  
cacaccaacg aagcattggc ttatcgacaa gttcaagtta ccaacgagaa ctttacgggt 360  
tactttgtca cctggagttc gtcgaagaag gaagaataag agttttgc  
408

<210> 2357  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B5  
<400> 2357

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gttccagttac atcatatatgt caaggaaaat agatatgttc ggctaccaga gttgttcgg 120  
attccgttttgc tcatgagatgt tgcctttgtt ggagagccgg tgggtcaattt attgcacatcga 180  
gttggagaat atttggaaagc caaagaggag gagataaaatgt cgtggaaatgt gtatggaaatc 240  
aggatgggtt tattttcttc attagatgac atggaaaaatgt tatgggttcc agaacctctg 300  
tcggatgacc gaggagatgtt ttcgggtttcc ttatgggttgg aacataaaaga tgagaatgca 360  
aaacgttggc agtcacccatctt cccaaatctt ttatggaca aacccttaaa gattcgggtt 420

<210> 2358  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B6

<400> 2358

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agcgtttgtt cctattggtc ctttcgtga aaaggatgag cacgcaacac agccttcaca 120  
acctgttgta aagccacatg gtagcaaaca ctggaagccg ctccagtgt a cccaaacaa 180  
ggaaaaagca gaggcattga tacaaaaggc acaaaaatagt ttgagtgcg ttttctcaaa 240  
ccggttgttc aagcatatacg acgtcgaaag ttgtcaagag ttttagagtgg tcgaaataaa 300  
gcttgacgaa aaaggtttga atttggataa tggacaagag catatcaagg aaagctttag 360  
aatattggca gagtttctcg accaatgtgg agcgaagaa 399

<210> 2359  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B8

<400> 2359

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ttctgtttgt tttgggtgc cttgtcatca ctgcctcg tctagtggat ttcacacacctc 120  
tctttttgg agagcgaatt atatgtatga acaacgaata ttgaaagaaa gttttatccc 180  
acgaaataat tgacttagtt gagagcgaat atgaatgtac gcaagcctca tcgtttgt 240  
ataagagtgc aatgcatacg cagcaacttg cacagtaaaa tgccggctct tctaacagta 300  
atggatcgta gcttagacag aggttggaaat aggaccaga aagcagctgt tatttggata 360  
actatttcct gtttgatact ttctccgggt act 393

<210> 2360  
<211> 342  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-B9  
<400> 2360

attttaacc aaccttaata cgcaaattta acccctagta gaaaaacctc aaccggaact 60  
tccgaaggag ctaccaaagg actttctgaa aggttaagtac catatacgctt gttgttagtg 120  
aaaaccaatt ttgcagattt aaacctctgt caaaaacatc ttgccaacat gtttcgttgg 180  
ttcatgttat tctcagaata caataagtgc cgaattcaaa tgactatata tagaaagtgt 240  
aaagaaaagac gataacaagga aataagagaa cgccctgtggg agtgggatga aggaatattc 300  
cgctcgtaa actctaagtc tcgacagctt cttagttgaag aa 342

<210> 2361  
<211> 398  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-C1  
<400> 2361

agaacaccga gtccatcgcc atctgcctat tctcgtgaac aagtacagcg tggtggttat 60  
ggagaatatac aatctcaaca atctgctagt tactatgtaa ccaagtatttgc caagaaagca 120  
gtacaacaag taacttatac ctcatgttct acttattacc catcgcaaac tgtagaacag 180  
aagacttgct acaagacagt agcagttcct acagagtatc agaaatatttgc ttacaagcaa 240  
gtggaacagg agcaagtgttgc tcaaaagagc tgtcccactt attattcagt acaaaaagggtg 300  
aaatatcaga gctgccctac ttatatcagc cagccaaacta tcatacccaa gtactgcagt 360  
atgtcggtct ctgaagagta tgtacagcaa cagcaatg 398

<210> 2362  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-C11  
<400> 2362

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cgtccagaaa ccaaaaatat gctatttggc ccacgtgagc agaaacagcg cattcaacaa 120  
acgcatttgtt tttgttgtgt acctttccac agtcatcaact ggaacttttg ggaagactgt 180  
ggactgaaaa atttatcttc tcatctcgta ggacaaagaa acaacgacaa cgacgacact 240  
tttcttattt ctgtgaatat acaagataat actcgatctc catagtgaac agtagactag 300  
tatTTTTGG aataacaact acgccttgta aaaatatggt ttctctagtc aaaatgaggt 360  
ggcttcgctg gtcttatgaa ggggtacagt tgctga 396

<210> 2363

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C12

<400> 2363

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atagaaaccc ctcaagttgg agtccctatt cacttgaagc aaacgtgtgt gacataaaac 120  
aacgcaatca acagccacaa ctattgaat aggttgaatg atatacaatg ctccctcaagc 180  
aaaaaatata gaagaataaa gcgagtaaaa cgTTTATCTC tagcacaact ttttatacca 240  
gcaacgttgt tggAACGCTT caggggatca tcgatacttg attaattcag aatggactac 300  
gtttatctca ccctccgaga atccttccaa aacatacaaa cattcgagtg ctTGGTTTC 360  
ggttaaacga aaaattccct ccagccaaat ccgtttgtt ccgagccaac tgaagaacct 420

<210> 2364

<211> 272

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C3

<400> 2364

tgcatgatga taaggaatct aactgagtaa ggaaaataag cttaagctag tttggctggg 60  
gaactaaagc ctaagaaaga gtatattagg caagcaaagg catgagagaa gtataatagc 120  
agaagcatgc ttgaataaaa agaatcatat ttcataaagg gaataaatat cagctataga 180  
taacaggtga aggagaactc aaccagatga tagcacccaa cgatctaata agaaactttg 240

gtggtaacat gttaatcttg tgtagagaa cg

272

<210> 2365  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C4

<400> 2365

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tggggttgga cgttatttat gaacttggac tctattgaca caggaattaa tgctccttt 120  
gacccgttt cagacgcctc acgtggagag gacgcagcag taaccaaaaa tatagtgcata 180  
attcgcttgc aacaaagaaa cggccgcaag tgcttgacga cgattcaagg gcttgacaca 240  
aaattggatt tgaataaaaat tacaaaggcc ttcaaaaagg agttttgttgc caacggttgt 300  
gtcgttagacg acgcagaact gggaaagatc atccaactgc aaggagacca agaggataaa 360  
gtcaaaaagt ttcttagttca aggagaaaatt agctgaaaaa gacctgataa ag 412

<210> 2366  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C5

<400> 2366

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agtttatgt tcgggtctt gtaagagtaa catttaccgc agttggatga acaatagtga 120  
gagtgagcat tggagaaaata cgaatatgg ttgtcctcggt cgaggtcggc ttttcatgg 180  
gaggtaatg acggaagagt ctccctgattc cgtaccttat ctattatctg agcttcgttc 240  
tttgatttct tatgtttcag gcaaggctgt gctttgtaaa gggtctgcta gcttcattcg 300  
tgatcgtttca cggacgttga tagcttttc ttcatctttt gtggaaaggg acaacagttt 360  
tatggatttc accggtttat ccaactacac gcacg 395

<210> 2367  
<211> 380  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-C6  
<400> 2367

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gtactagaca actcaggacc aaaaacagca agatgtatag gaattcttgg accaccta 120  
aagtttgcta ctgtcggtga caagattgt a ttactgcag agggaaaagt ttaccacgga 180  
atcgtcgct gttgttaagg ggaaaagaag agaccggacg gttcccttgc aagaatcgac 240  
cagaacggag tcattctagt agattcaagt ggaaagccag tgggaaacag agtatttgg 300  
gttttgagca gtagagtgaa gcaaccggaa attctctcct tgggacgcgt caaaaccatg 360  
taagctttaa tagtttaggtg 380

<210> 2368  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-C8  
<400> 2368

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tgacatggct acttcggaaa taaacaacca ccatcaggaa gaacaaccat tcaaggagtc 120  
cgcgtcgaaa gaagtcaacg acaagttcga ccaaacctat gccgaaagcg ttgccaagga 180  
aatcatagaa agcaccgtgg gagaagagaa atacgaacac acaaagacag tggaatggac 240  
caatcaaatg tgtaaaaaaaa tactgaacaa gttgttggaa ctgcaaaagg ctttcaaata 300  
taaacgtggg tgggtctatc ctcaggtAAC gttttacat ttagcgatag ccactagtct 360  
cttggccctt attgcaaaag 380

<210> 2369  
<211> 368  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-C9  
<400> 2369

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taaggtgaga gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaaac 120  
atatgaaaga agcagcaccc actgttttagc aaaaacacag cactctgcag aaaagagaaa 180  
atgtaaagta tagagtgtgc ggcctgccaa atagtagaga agaaatcgat gaaagtgaaa 240  
gcgagtaaaa gatgaggat agagaatggc ggtcctaact gtaaggatcc aaaggtagcg 300  
aagtacatag acgtttgaaa ggcgtccagt atgaaaggag aaatcagtgt agcactgtct 360  
agtctgtcc 368

<210> 2370

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D1

<400> 2370

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caaaggctaa gtagaaggaa gaagaagaga gaacaggccc aaagaagaag aaagaatagt 120  
ggatgtcata gtatggcaga agaagaaagc tctcaagttt ttcacgccaa actattgcta 180  
aatcaaggct ccaaagattt gcttcgttcg ttggaaact tgctggaaac ttttacaacg 240  
gaagaggtaa agtagcaat tcggtagttt ttcacgttgt tcgtgttagt gatgaagaaa 300  
agttgagttac tatactcgta cacttggAAC gcgtatgtac agaaatatcg agggtaggag 360  
tcttgacacg gatTTTATTG aacaactaaa ctattaaagt cactgcaaa 409

<210> 2371

<211> 227

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D10

<400> 2371

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gcagcaccga ctgttttagca taaacacagc actctgcaga aaagagaaaa tgtaaagtac 120  
agagtgtgCG gcctgccaaa tagtagagaa gaaatcgatt aaagtgaaag cgagtaaaag 180

atgatgtata cagaatggcg gtcptaagcg taaggatcca aaggtag

227

<210> 2372

<211> 150

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D2

<400> 2372

gaccacgcgt caggaataga tgagggaaaga aagatcaagg aagtaagagt aagagaagg 60

gtaatgtgaa tgaaaggcagg aaagtatttg aagaagagag tgtaaagcgc gtacctttt 120

cataatgtcc cagcgagtga aagaggaagc 150

<210> 2373

<211> 251

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D3

<400> 2373

gacccacgcg tcaggtgact ttcttcaga agatatttc agttgctcct ctcaatttcg 60

aagaatggat ggcagtagtg tggttatcgt ttcctgtat tctttggat gaaatgctca 120

agtttgtttc aagaaagttt attcaaggca atataaagaa accaagaatt tgacaagatt 180

gttgggttgtc ctcaactttt ggactggaac aattccctgg tcgcctaaaa taaaaaattt 240

cctcaagtct c 251

<210> 2374

<211> 399

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D4

<400> 2374

aggtgaggaa gcaatgacga caactgccag tgctgcagca agggctatcg aaagaagaaa 60

acggatactg agtgatagtt cacagcgtct tactatagct agtggttctt ccctagaagg 120

caacacaaaa aatattgaga aactgaattc ggattctcg aaacaacaag cgaaggaaga 180

ctccccgtta caaggaaatg agacgagaga aacccagcaa gacgcaagtg atgtgattgg 240  
aacccagcgc ttggttccac agtcggaaca aaataagctt acaaacacaa aatttacagt 300  
tgaggagca tttgatggtt tttcgatgtt taagcgtctc tctcaaattt ccgggacact 360  
tggttcctcg agagtggaca acttattccg ttccgtgtg 399

<210> 2375  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-D6  
  
<400> 2375

agcccacgcg tccgctggaa tttctctgac tgttctttt caagttttc gtcgtattct 60  
ggaaaggaca gtaatcgagg ttgggtgata atgatatgtc cttctgccgt tgacgtggaa 120  
gccatggaga aaatagtcga caaagagtcg ccattctaa ataaagatgc tcgtccagtt 180  
atactggtga atccaatct agttgatatg ggagcaacag gtttaggctt caacgcaaga 240  
cagctaagac aacgcttatt gagcacgtt gaatccatct acttccttcg agtgtattct 300  
gccggagttg tggttcgtca gtatccctt gagtggagta tttgggtgga aataaccaac 360  
gaagacgaaa atacttcttc cgactct 387

<210> 2376  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-D9  
  
<400> 2376

acgcgtcagc ggacgcgtgg gccggacgcg tgggtttac aagcaatggc accataagaa 60  
cgtagcaaac catagagtcg ttctgtctaaa gcaggcctgc agttcctgt tggaagagtg 120  
agtcgttttc tcaaaaacgg taactatgcc gaacgagttt gagctggagc ccgattttat 180  
ttggcagcag ttttggata tctaaccgtt gacaatctt gaattggctg gaaatgcagc 240  
acgtgctaat cagacgactc gacttgtcc tcgccccatgtt gaacatgcag tgccgaccga 300  
ctaagacgtt gaataacgct gctctgtgga gtgactattt ccacgggagg tgttttacca 360

tacgttc

367

<210> 2377  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E1

<400> 2377

aggagaaaag gctttgagaa atcggacttg tctttgctgc ct当地ccag ttacaatatac 60  
agtgttcct gtcattgttt ggactttcg agaaatgtca tgctttggaa gagaccaaga 120  
caagcttgtt tataaggctc gtgtaatctt aataactgga ggtgcagggt ttatcggttc 180  
acacgtcgctc tcttatttgc tccggaaata tccggaatat ttaattataa actatgacaa 240  
gttagattat tgtgcttcgt tgaaaaactt gagtgacggtt gcccaactatc caaactatcg 300  
ttttgtcaag ggagacattt tatccgaaga tctcgctagt tacgtgctcg aaagtcatag 360  
cgtagatact gtcattcata tggctgctca aactcatgta gatgc 405

<210> 2378  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E10

<400> 2378

ggttacaagt aggagacgaa gcacctgact ttgagttgaa agaccacgac ggttatatacg 60  
ttaaatttag cgagttcaaa ggaaaatatac ctgtagtcct attctttat cgcaaggaca 120  
agacgtatgg ctgcacacgt gaagctgca gttccgaga taagatgtcg gaatttaacg 180  
aacttaatgc gaaagtttc ggtgtgagtt cggacagtgt agagtctcac aagtcgtttg 240  
ccgatgaaca gaagttgacg tttcccttat tatctgatga atgcggtaaa gtactcaagc 300  
tatacgcgtg tatcaaagag catgttact atgcctggtc gctgcactta tgtcattgg 360  
ccggatggta ttgtaccaca ca 382

<210> 2379  
<211> 414  
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E12

<400> 2379

cacgcgtcag gaaagaggca aatacggaa agcagtaaaa gaagaaaagag aaaggaaaaa 60  
actgagtatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaaaag 120  
gtaagaaaga ggaaaggttt acgagagaag gaagtagaaa gaagagagtg taaggcggcg 180  
tcataataga aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa 240  
agccgtactg aagaccgaca caggtactcg aggagaaagg agacccaaat taaggtgaga 300  
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 360  
agcagcacccg actgttttagc anaaacacag cactctgcag aaaagagaaa atgt 414

<210> 2380

<211> 249

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E2

<400> 2380

acccacgcgt aagctagttc tttggttcc aaaattggcc atttattatt gtctcaacat 60  
gtttttagt acaaagccaa ctggatatca atcacggtca ccgtgaaaga atccataaga 120  
cactgtatac ttgtcgtccg ttattaacta cgaggtgaat cagtcttcat caagttttc 180  
ttccaatcgt tgaatcttct ccctaagcgg actacatacg taataataac tagaagagtc 240  
aaataaata 249

<210> 2381

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E5

<400> 2381

agcggacgcg tgggtgatt tccaccaagt cacaagaat cgtaaaagag aaaatgacga 60

taggtttgt acatccactt ggaactagtg ttcaatgtaa caaacactac aaaactgcta 120  
cttggccttc ccagtttat tccaagtctt catcgttct anggagaaac catgggggtt 180  
gcaagtcgtg gtctcttgc tatgaaagca aggtggatcg gaacaagtac acttacagtc 240  
atccttagttc cgtaaaacaa ggaagaggac caactatggt tgcttcgaaa acagagttgg 300  
aacaacaagt aagatccaga cttagtcaagt tgtttgagca gacaccctgc atgcccata 360  
tggtgagact tgcttggcac gacgctggaa catatgatgc acagacg 407

<210> 2382  
<211> 165  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-047-Q1-E1-E8

<400> 2382

gaccacacgc gtacggacag tgcattccgc aacgccgtcc gcgtgacgca tctagatcac 60  
gacatcanca catgcaaata cgtaaacagc gaacgggtgtg cctaatacgatgtgtcaaagg 120  
agtgagaaca gcatcaaacag cacagcatca atgtaacgaa atggt 165

<210> 2383  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-F2

<400> 2383

ccacgcgtaa ggaaagctt ggtccagatt cgattgagtt tatagtgaac cattccgaca 60  
tgcgtttct ttgcattcgt tcagaaaacc tggataaaagt tcttggaaat aaagacaagt 120  
ttccccaaact tgaaaagata gtttgatgg accgagaaaa cctgaatacgatgtactctcc 180  
cagactatgt ttggatata cagaaactta tatctgatgg aaacgaatct gggcaagtcc 240  
agccaggatc attggacgt atttcgtga tcatgtatac cagtggcaact acggggaaac 300  
cgaaaagagt tatgttacca aacaaagcat ttcttgcgttga agttgcccgtt atattaaagg 360  
ttactgatca ttatcacatt tcttttagaca atactgatgt aacaatgagc 410

<210> 2384  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-047-Q1-E1-F3

<400> 2384

gaccacgcg tcagcaaaag gagtctactc cttcacttgg tccttacgtc tgaggggtgg 60  
aatgcagata ttcgtaaaaga ctcttactgg gaagaccatt actcttgaag tggagccctc 120  
agatactatt gagaatgtca agtccaagat acaagacaag gaaggatttc ccccagacca 180  
gcaacgtttg attttgca gtaaacagtt ggaagatggc cgtaactctc cagactacaa 240  
cattcaaaag gagtctactc ttcacttggc cttacgtctg angggtgaa tgcagatatt 300  
cgtaaaagact cttactggg a gaccatcac tcttgaagt gaggccctc agatacttga 360  
aaatgtcaag tcgaagatac aagacaagga aggtatntcc cccagacagc aacgtttgat 420  
ttttgca 427

<210> 2385  
<211> 407  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-047-Q1-E1-F4

<400> 2385

acgcgtcagc ggacgcgtgg gcggacgcgt ggggcggat ttggaaagag tatggcag 60  
ttacaactat cttctcgta tcagactcaa gtacgatatg tggtaaaag ttatctgaga 120  
gagaatccaa aacagaaaca tttactcgat agtctttaag aagatacaat atcccaccaa 180  
aatttgtagc agataactcg tttggcgccc aaagatgctc ttccaccgtt ttggtnctt 240  
gtggcaagta gcacgtggaa actgccacct cccaaatgtc catatgacaa ttatcaacgt 300  
cctgcaatac tagacaaaag actagaagct cttcgtgagc gtcataaag aaagcgttat 360  
aggaaactaa tacaggactt accttagtctt gcgcacacgaa 407

<210> 2386  
<211> 416

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-F5  
<400> 2386

gacccacgac gtcaggttgt ggagtaagtgcgcttggcag caaactaaaa gatggcaaga 60  
agaatcatcg gagcttatat gtctgacgct actgtacgct ctctatttag cgtaaaaatg 120  
ttgttctacc ttacaataact tgcgttctct atcactatttgggtctttag gggtaagagt 180  
tccgacggta tttgggttca cagtgttcca gcgaaagacg aatattgtgc atacaagtct 240  
tcccttcaag taaaccacca cggcatagct tcctattgca agtatacat ggctgttagca 300  
gctattggtt tggttatcag cttcttcgag ttttggatcg cattcctcgg aattttcttc 360  
aagtggcaac aaaagtgttgatattgaa tctgctatca acgtgtttt ctggc 416

<210> 2387  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-G1  
<400> 2387

agcgatgatt cgatgcggca caagacagtt gtgggtggcaa ctgcgcgctc gttatcatac 60  
aactactact gtcctatagag tagcagcaga cgaagaaaag gaatctgtcg gtataaagcc 120  
taaacgttttgcatcgcctc ttggagtttgcacacaaggaccaatctgg aagaagttag 180  
agaaaagtgg caaagtgcgcgctatggaaact tatctcgaaa gtaccccgat tagtagtcga 240  
tggctatgtc atagcgtgtatggaggccgcgatccattaggacatccaa tagaatatat 300  
tcgtttggaa gcaccttatac cttcaacttgcggatattgttgcgat atatcaacaa 360  
agacactttt gaaaagtggaa aaaaagaaaa taacgaataa taaaatggaa aga 413

<210> 2388  
<211> 228  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-G10  
<400> 2388

aggcccattt tacatccgac aatttcagag aaccctgcta tgaaaacaca actggcatac 60  
agagacgcca tttcaacag cttacggatg gcgaccacaa tgcaggatgt tcacggacc 120  
agaataacaa ggacgccact agcagttct tggccattca cggtgccca cccgtttga 180  
ccagacttcg caagagaata tcggataatc atcacacttc gcgcttcc 228

<210> 2389

<211> 94

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G11

<400> 2389

aaagacaatg aaaagaagga taaggaaaaa taagggagg tggaatttga taggaaagga 60  
ttattccac ttcttaggaa ggacgttact ggat 94

<210> 2390

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-G2

<400> 2390

gaccacacgac tacggaaatg gcggcttcg aggtcgagct tccccctggcg gacgttttt 60  
tcgtgaagca aacaacaaca acaacaacaa ctatcggtcg cgcaatgctt acagtgaaac 120  
cccatcacaa cttgttggaa tgggtatTTT tcaacatccc tgcgagaacg aactagttt 180  
taagagtacc aacgaaaaga tcccgtttt taacgctcca atatttctgg aaaacaagac 240  
gcagattggc aaagtggagg aaatatttgg tcctattaca gacgttcaact ttactgtaaa 300  
accagtggaa ggtgtattag ctacttcttt tgggttanga gacaaattct acatcggttc 360  
agagaaactg ctgcccgttg aaagatttct tcccaagc 398

<210> 2391

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-047-Q1-E1-G3  
  
<400> 2391  
  
agcaaaaagga cataagattt aaacggcagc atggaggaag aaactggtag ggaacaacct 60  
gaaacacaaa cagcagggga aactgcacaa gaacaaacag acagtccggc agtagaaaca 120  
gagacctttt cgaatcaata tctagagcag cttatcttgt cgtacttgaa acaccaatgt 180  
ttttcaaaaa ctgccgagtc ttttgcgaga gagattgctg ttgaagatac agtggaaagaa 240  
ggttcagcgg aaaccagtga aaaggagact tccattgagt gccttccaaa gcaaatacaa 300  
gtgctggaca aacatgaact ggaactgtta gatttgacga agacggtatg gcaactcata 360  
aagaaaggag agtgtttgcc aggtttggac tgggcanacg tggtaactg 408

<210> 2392  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-G4  
  
<400> 2392  
  
ccacgcgtca ggagaacgac agtagcgatg ggattgtta gtagactgtt tgtgaaaccg 60  
agtcgtgtac cgcaaagagt cgttagagttt caaaaagcgca aggccgaaagg ctactttaca 120  
tacaacgccc ggaagtacgac ccgatacatc aacacaccta ttacacctgtt tgtgtcccttc 180  
accggtcctt atgcctttat tgacggtgtt cttgggcgg caggaaagaa ggaaagtcaa 240  
tcgtgaatag cgtttttgtt cttgtggac agtcttatga actagtgatt cgttgttct 300  
gccagttta gtttcttgta atgaaagttt ctttttttc cttgc 345

<210> 2393  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-047-Q1-E1-G7  
  
<400> 2393  
  
agcggacgcg tgggccacgg gaccggttat tggtgcagct ggaggttgcg atgtatttgt 60  
  
ttcacgagtt ggcacacgaa gtactattac tggtaacaqqq acatatttat aqgagaacag 120

tccatcggtc catattgtgg cagtacaacc gaccgaatct cctgttttat cgggaggcaa 180  
atctggacct cacaagattc aacgaatatg tgcaggattt ataccgata tattggatac 240  
cagcatatac agtgaactac tccaagttag ttcagccat actatcgca tggcacgaag 300  
gatggcaacc gatgaagggtt tattggtagt aatatcttct ggagctgcag tttatgcttc 360  
cattgttatt ggaaag 376

<210> 2394  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H10

<400> 2394

cacgcgtcag ctcaacgacg taatgagact cactcatttt ctcgttgtt tgtctttgt 60  
agctgttttc ctcgtagctc atgcagttcc cggtggagaa gatgcattca gtttcagtca 120  
gacttttggaa aatgcttctg cttcaggcaa cgccctgtt attccagcta caaccaagat 180  
ccccaaagtttta gaagtaacta gtatgcctc atcaaaggac aatggaaaag cagctcaagt 240  
agacttttgcg gattactcaa agggatatec ttgccttagc tatttttacg ctcccttctta 300  
cacatccat gtggatttc ctcaatatcc atcctatcca tcatggcctt ctttaatgaa 360  
gcagcctgcc ttgggtggct tcgattccaa tgcaagttt ggaaagtctg aaattttcgt 420  
g 421

<210> 2395  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H12

<400> 2395

ccaagcgtcc ggtgggttg atgcccgttga ttgagctacg tagtggcaac tccgctgtct 60  
tgaaaagacat aactgcaagt attgaaaagc ctgacataaa atggataact aggacgaatc 120  
tcagtttttg tctgaattct gcagaaggaa atgttacggt tgacttgcg cggcagtgtt 180  
gcttgaagga tatattttca ttgaagcttc tcgacaataa ctttaagtttgcgtgtttta 240

atgatgcctt gtttttagtt ttaccaggct tatcctttgt tattactggt aatcgatat 300  
tctgtagacg ctcggacttg aatgaaacgg aagcattgga gtcctgctt tcgtttatga 360  
agatatgccc cacgtacaag tcgttggag 389

<210> 2396

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-H2

<400> 2396

gcccgggcca cgcgtaaggc tacgcattgtc gtcgaacggg ccgtaccgct taagaagagc 60  
tcaaaggaa gatgtcgaaa acatttatt tctgataaag cagttggcag aatatgaaaa 120  
agaaccagaa tctgttcaaa taaatgagaa agatcttcaa agagatggtt tcgatacgca 180  
gcctccctcta ttttacgtcg ttattgccga agtttcgtt aggaacagaa tgtttggaaa 240  
tgtgttagggt ttgcgttatg gtttatgtg tattcgactg gagagcgctt catttggaaag 300  
atctttcgt gctaccacaa tatcgccgtc aaggaatang caaagctttg ttaagatatt 360  
gtgctgaggt tgcccttgct gaaaagtgtt agagatatca atgaaacgtc t 411

<210> 2397

<211> 390

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H3

<400> 2397

agcaaatgca acaaacaggag acaaaggtaa tgaaatttca ttaccacatg atacaatgga 60  
tgtctacggc atacgaggac tcttaaagtt aatgtcgcca agctggagaa cggaacaacc 120  
cgattatttg ctacttacac ttggaataga cttgacaagc ctaggactta acttgaattc 180  
tacggagccc ttgtatattt cctttgaaac tccgtttctt gatatgaacc gaggtctcta 240  
tcatgaacca gaatatagtc ttccggaatg ttacaaaatg gaacaaaagc cgccattatt 300  
gaaattgggt cattttagga agttcaatt gcaaacatta ttttatatat tttattgtat 360

gcctcgagat gcattacaga tacttgcagc

390

<210> 2398

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-H4

<400> 2398

cgttaaggga cagngtgtgt ttgtgtgatt gggtggata aaggcgcta ttttcaaaga 60

gtccaaccta gtgagaaaaac atgaatccgg aatatgacta cctttcaag ttgttgctga 120

taggcgactc tggagtggga aagtcttgcc tcctgtgcg ttttgcgac gacacttaca 180

acgagagttt tatatcgacg attggagtag actttaaaat tcgcacgata gaactggatg 240

gaaagaccgt caagcttcaa atatggata ccgctggaca agaacgttcc cgcactatca 300

cttcttcata ctatcgaggt gcacacggca tcattattgt gtatgacgtt accgaccaag 360

aatcgttcaa caatgtcaag aactggttgc acgaaattga tagatatgc 409

<210> 2399

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H5

<400> 2399

agcgtttatt ggaagacttg cctcctccaa aactggcact taatggcgct ggcggtccaa 60

cagcaactga acttgcacgt ttgcttgaa agggtggcac tatggtaact tatggaaatg 120

cttccggaa accatttagt attcctacta gtctattac aacacaagat attcactga 180

aaggattctc gatgcttaat tggtaaagt ccaagtcaga gcaagatgtg aagaaaatgt 240

tgc当地tgc当地 cacaatg atggaaaagg accagttgaa gttttggatc gaaaggaaaa 300

agttggaaca actcgaaaca acattagaag cgttaaccac aaaagaacct caacaggaaa 360

gaagaatagt ttttag 375

<210> 2400

<211> 357

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-H7  
<400> 2400

gacccacacg taagggagga gaatggtgac cacccacagc tgccgcattt tgccaagttt 60  
cgtttcaagt ggtttccaag tacagcttgc caaacagtta tcttcgtta ttcattcatg 120  
aaatacatgt ctatggagaa aatgttattc gaaaaaggtc gctcgtgttc gttccataacc 180  
aacatctata gttgcaagtt acaactacag catatttcac gacgaccata atcgttcgac 240  
agtaaaaagta gattcacgag aatcagccta caacttaaat aagccgttgg gtttggattt 300  
ggaagaatca gaagatggaa cggttagctgt agctgataca gattctccag ggaatgc 357

<210> 2401  
<211> 179  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-047-Q1-E1-H8  
<400> 2401

cgacccaagc gtacgggagc aagcttggaa gtcgcccag tatatcagag attgtcacat 60  
gtcaagtccg taaagcaagt gggtcgtga agctgtgtgg aagagtgccca cattgtgact 120  
gcgaagaagt ctgtacgaga tagttcgact gtggggcata ttggagcttgc tagcgggaa 179

<210> 2402  
<211> 290  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-A1  
<400> 2402

ccccacgcgtc cgccccacgcg tccgcccacg cgtccgcgga cgcgtggct tggaactaag 60  
gaaaagatgg atgcaacaga acaatatatc agaagaaaagg aacgatagtg ctgaggacgt 120  
cagctcaaac tcatttgcct gtgttgcgag tgcagttcc tcgaaattca tccaaactat 180  
ggctgagaag gaagggtttc aatttcgtga aacattaaca ggttttaaat ggttgagtca 240  
tgccgcttta aaactggagc aacaaaatttgc tcaactttta ttagcatacg 290

<210> 2403  
<211> 332  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A11

<400> 2403

cgcgtggcg gacgcgtgg gcgatatgca ctcgctcgga acggttattt gttttgtgtg 60  
ttgttagata ctgtatgtt gaatagttga caagaaagaa gaaataggat gaacaagaga 120  
tatacgaata tagggacaac tgatgctcaa ggcaccagtg atgttatgt ttatctgaat 180  
ttgccactt tactccatt tcttgtagat atatatataat gtgtgtgtgt gtctgtacta 240  
attttggact aaggacatgg tttctagggt ttattgc当地 aaagttgaat agtaactcgt 300  
tctatatggt tcgtttagta atgtcttagag ac 332

<210> 2404  
<211> 431  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A12

<400> 2404

tgaaaaacga acgagtcctt tcggtagtaa ctgttgaagaa tctgaagctg cgtaattgcg 60  
cgaacggtca cgtcacttgt atgaaaagta ctagctcaag gttacaactc gagcaaaaca 120  
atactgcaat tcacttggc gatccattgc ttgcaagcaa cttaacgagt caaacagcga 180  
ctcgaagaga caccaacggtt actattcttca caagattagg tatcgcttag tgcaacaaga 240  
tacgtatata ttggtagtatt tgcaatttttta tttcgcttca aaagatgcta tattttactta 300  
caagaacaaa gtcacttcac tgagtgtctt tgatgcaacc gtcgttgccct ttatgacagg 360  
cagagttcttca agtacattcaat gatacattct aaacaactat tggttatgt aacaaaaaaag 420  
agtttacgct c 431

<210> 2405  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A3  
<400> 2405

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tgaaaggat ggaacgaaga tgatagaaaat gttggcttcg ttcccttcca gtcattgggg 120  
aagtcttcga atgaatgctt ccgttgcgtt cttgcactt tccgacaaag ttcccaagtc 180  
ctttcggat ggaactcgat tccttcgcca tatttggaaat ttgaatgaaa ccacatttcg 240  
tattgtattt aatacgacga tggacgaatc ttttgcgtta gatatgactt ctacttattt 300  
tgggccttcc tatgaaacgc tagaaatcat tcgacgtctt cctgatttggc cagatgcagt 360  
tacttttcag actagtggag 380

<210> 2406  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A7  
<400> 2406

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atattggccc aaactgtcaa cttgtatgtt gttctgttga taacttggaa gacttcttgg 120  
gtcagcaagt ttatgaacaa ctccagaaag tatactcgga taatgaaagc gttttgatga 180  
agttggatcc tctcgcgaag ttgttggaa gaaatcttga acgattatgg aggagcgtatg 240  
ttccttatggt gcccgaacct tcccagatgg atattgttc caccagaact gatacagacg 300  
agatgcaagt aacagagcgt aaaggagttg tctcagtgcg acaaggccag tttgatttgg 360  
tggagttctt gaaaacatat tgtgatttga cagagtctga agcaagagaa tcttagttatc 420  
gact 424

<210> 2407  
<211> 325  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-048-Q1-E1-A9

<400> 2407

aaggacgcgt gggtaactcc tcgaaagcta tataagtgc gtatgcagg aagaagaagg 60  
taaaggaaga gaaggaagaa gcagagaggg actatgagcg agaaggtgga tagtcagag 120  
ggaaaaagcc cagaagccaa gataaggtat caaagtaaag aaagaaggaa aaggagaaga 180  
agagaggta agcttataag cagcaaacca gagaggaaag cgtaaagca tgaaagaaaa 240  
gaaatccgaa aaagaagaga aaaaggtaag aaagaagacc gaatcaaggt aagangtana 300  
ggatcaagaa gagaagagag aatgc 325

<210> 2408

<211> 186

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B1

<400> 2408

acgcgtccaa aatgttagtca ctcgtggctc attaacaacc actttccggt agactatcga 60  
gaacatgcgc ctatctaacc ttctgacttg tccctctgtc ttgcgaagaa tcctgaccag 120  
ccttttattt tacgtcttc atatttcat ccgttattgt acattatctg cattttggat 180  
ttggat 186

<210> 2409

<211> 261

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B10

<400> 2409

gcgtccacat ttgagtgttt tggtaactgg gctgaatatc cttctcctgc actatgtctg 60  
cgaatattcg aataaagtaa ccaagtatgc aatggtttg gaatttccgg ggcggccttg 120  
caaccttcgg aatccgtgga accggttggc caccggaaat tctgttcaaa ccgttcacaa 180  
ggatttaaga acacctacgt tggaaagga tgcactttaa aatcccgtgg gtacagagac 240  
ctgtcctaattgtatataaga a 261

<210> 2410

<211> 119  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-B3  
  
<400> 2410

ccgttccgct ctgtttccag tctctcagg ttatgtcac cgggactgct ctctgtcacc 60  
ccttatcgca gaatacggat tacctcagg ttgcaaaacag tccgtttcc cgggtctta 119

<210> 2411  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-B7  
  
<400> 2411

attggaattt ggtttcctt tggacatttta gaacgcgcct ttcgtaccga ttggccgata 60  
caaggtcatc cctatactta tggatatcct agtttgagat atgcaagtca atgttccagt 120  
ggaactttc gtcaacagtt tgcaaggcat aagttggag ggctacatat atccaattat 180  
tgcttcctc cctttgttat cttaaaggaa ctaacaggaa cggaatatgg aaacgaaact 240  
cttcaaaata tgacaaagga acagtgtcaa caacttgtcc acgactgcc aaggccactct 300  
tttggaaagaa ctgttcctt agaccaagtc ccagaagaag acttggatgc agtgtatatt 360  
ccttggtttgc tcaagtgtaa ccctaaaaga tatccatcgt tgatgcata 410

<210> 2412  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-B9  
  
<400> 2412

ttggaggcatt tctgcaacat ccctcgagag agaaatgtat aaggacggcc tctacgctaa 60  
cagtcataga cagagctttt actaaggcaa attgagaatt ccaaactgga tagagctcca 120  
tgtttggaa tagagcacag cccttactct cctcattggg tacacaatag aatctttct 180  
tattcagata gaaattttgc taagtgcacg atacaacaag tgaagttcgc gaatttccgg 240

ctctaattcc atctctacat tttctgtaca gggtgataa ctagaagctg tcctcattcg 300  
ccatgaagtg tccactatgt cacgtaacta tctattttag tgattcggat 350

<210> 2413  
<211> 169  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C1

<400> 2413

gacgacgcgt ccgaccacgc atccgcgatt gcctgccttc tctcgacact cgttggtttg 60  
tccttgaaa acacgttttta gagtcattcc aatggctgca gtaacccttta agagacagaa 120  
gactgacgta cctggatttc tacattgaga aaatgctctc aacagcttt 169

<210> 2414  
<211> 179  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C11

<400> 2414

ggacaagagc gaagttagtc cagcttgaa tgtgctttat gaacactatg aacacgctgt 60  
gcctgattct ggccgatcatg caaatccgcc tgacgggtt ctccagttca agtcagagct 120  
gttggatagt actggtgata tgctacttgg gtaagctgtt gtttatgtct attttcatg 179

<210> 2415  
<211> 342  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C12

<400> 2415

actgaggaga cataagatgg aataaaaaaac caactatttg cacaaaaaaaaaaaaaaa 60  
aaaaaaaaaaa ataaaaaaaaaa aaattgaaaaa gaaacaacaa aattaaaaaaaaa aaggaggac 120  
gcaccaaaag tttccaagct tacttaaacg tgctggccaa cttaatgctc ttcaaaaatg 180  
tgaccctaaa tttcattcat tggccttttc ttttaactcc ccgggtttgg gataactcgg 240

gctttatcta atttacccgg cttggAACAC atctgcctt ccccaactgt ctTTTTTTT 300  
aacaagtccc catTTTTCC tCTTCCCAAG aATTTTCAG CC 342

<210> 2416  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-048-Q1-E1-C3

<400> 2416

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agggtaccgg aaataagtcc CCCAAGGGAA aattaaaaat CCTAATTAAc CAATAAAACC 120  
caaggTCTCA aggaatttca aaagTTTTT aaccanactc CGAAACTCGG TAAGCCGAAC 180  
tttgaagaaa accaactccc tatggagaaa atgttgctg TCCAACGATT GGCGCTTCC 240  
caagctattt gagagacatt tcgtaattct gccaagaatt tcgggttaaa atccttgaa 300  
aaaatccatt ggtcctttaa CTTCCTTAAT ttgaaatCCA agtgcgttaa tttGCCAAAT 360  
taattgtgtc ctctcctcct agaccctgtt atttagtaga atagatata tag 416

<210> 2417  
<211> 369  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C5

<400> 2417

actcacaagt ccagagaaat gttcagatat tagaggtgtc aagataccaa acttttctgt 60  
gcggTTTata aaaaagtagt ttctgtgagaa AACGCAAGAG ACACCTAATA TTAGTAGAA 120  
acTTTGTaat gttcggTTT CCAAGCGAGT CTGAAGTTAC CGCGAAACA ACAGATTCTC 180  
ctagCTTACA AGTGTCTTCT CACGGAACGC CTTCGACCTC TCTAGTCTC CGGAATCTT 240  
cttatcatga gtattacgtg aagcataagt attcactgtA tagAACGGGA CTGGGTGAA 300  
aacacttgc agatccaaT TCGACTCATC AATCTTCACG GGTGGAGCT TATATACTG 360  
ggagccacg 369

<210> 2418  
<211> 313  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-C8  
  
<400> 2418  
  
ggtcgaccca cacgtccacc cacgcgtccg cccacgcgtc cgcccacgcg tccgattttg 60  
tgttgttg tagtgatgga tagggactgg ggtgcaaaga caggaggtgg aggagttgcc 120  
tccaaagaac aaacagatata ctcaagaaga gaaagggtgc gtcaacttgc tttggaaacg 180  
atagacttga aaaaggaccc ctattttatg cgcaatcact tgggaggctta tgaatgc当地 240  
ctgtgtctaa ctttacacac taacgaacga aattatgg cacatacgca aggaagaaga 300  
catcagatga acc 313  
  
<210> 2419  
<211> 113  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-C9  
  
<400> 2419  
  
gacgacgcgt ccgaccacgc atccgccccac gcgtccgcct tggcatcgag aagcgatgaa 60  
gggcgtggct accatcgata tgcttcgagg agctggaagc gggctttgat ccg 113  
  
<210> 2420  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-048-Q1-E1-D10  
  
<400> 2420  
  
tcggaaaacg gtaacaaaat ggtaataact tcggaaaagg aaaaaacaat tggccccaaa 60  
attctcccccaaaattcttt cgtaaggcgc aatcctaagg gaaatatgg cggtgttgct 120  
gcggagtatc aagtgcctac taagcaagtg gtgagcttgg gacatcncga agcactggaa 180  
ttggctgggt ttgctgcaac cgactttatg ttgagttgta tcaacgc当地 gttgttacct 240

agcagtatga caaatagtat tatgcactt ggtttcttt atggagggttc tgcgagc 300  
attgccgta ttatgaccctt tgtaaagcag aatacgttt gttggagttgc attttcaagc 360  
tacggtgccct tttggtaac ttttggagtt cttataacat t 401

<210> 2421  
<211> 313  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D12  
<400> 2421

tggcggttca caaatgttgc gctcaaggag tactccatat atttatcgat ggcgtcctgt 60  
aactgttact cattcagctg accacaaaga tggcctaag gattcttga gaaccactca 120  
aatcttcga aattcagaaa cttatcgtaa caaggacgac atgctgaaag ttgaagttat 180  
accccacact ggcctaccag gtggaaagca tagacctcgat gcctctcctt gttcagctat 240  
ggagaatgtg atgaacaaca ataatgactg gacttgtact gcttaggaatg ctccattcga 300  
gatgcatagt gtc 313

<210> 2422  
<211> 138  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D4  
<400> 2422

acgcgtccga ttccgagttc gcatgcacct agtcgtcgat cttgtgattt cagtttccg 60  
aattcttttc agagatactg tgatcgat gtatgtgctt gccctatcag ctgttacatc 120  
acatccaagt atgggatt 138

<210> 2423  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D8  
<400> 2423

cccacgcgtc cgcccacgctc tccgcgttgg taagcaaaca tgggagccta caagtatatg 60  
caagaattgt ggagaaaaaa gcaatctgac gttatgcgtc ttactccg cgtccgtgct 120  
tggaaatac gacacttgcc ttcggttcac cgagcttctc gtcccactcg tcccgacaag 180  
gcaagaatgc ttggctacaa agcaaagcaa gtttatgtaa tctacagagt gagagtccgt 240  
agagggtgta ggaagagacc agttccaaag ggtatccaat atggcaaacc taagaatcag 300  
gttatcacac aactaaaatt caagagacat aagagatcag ttgcagaaga ccgagctgga 360  
agaagggtgctg 400

<210> 2424  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E10

<400> 2424

cgtccaaattc aatatcttta aatgagctac ctaaaaggga atcaaaaaaa ggttcccttt 60  
gtggcctcgc gtggttccag tttgttccctt tggtatattt gtttaatttt gatcactaca 120  
agtggaaact actcttcgac agagaaactc cctactataa ttcttggtaa aataaaacta 180  
tttattccta cacttcttta taaaaaaaaa atcaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaagaagaaa acaaaaaaaaaa aaaaaaaaaatt aaaaagaact tatctgtaaa atctcaaacc 300  
ttctaaaatg ttacctcaaa agatattcac ttgaccaacc t 341

<210> 2425  
<211> 192  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E11

<400> 2425

gtccaaaccac gagtccggca taaaacttggg acagagtctt ggaacttggg ctccctata 60  
ttgcacacgt agtacctgtt tgctcacttg ctgctttgtt cttattccgt tcacccttga 120  
tgagagttgc tctttcgagt ttggatgcc tattaagggtt ctccctcaact tacatttacc 180  
caactcctgca ct 192

<210> 2426  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E12

<400> 2426

ccgccccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gcttgacaag 60  
gacaaacgtt cttagcttc tacttgtgct cacatcttgc tattttatt tgcgtttgac 120  
gcaacctacg agttggAACc tttggatttg gtgattcagc agtgctccta cgtggcagac 180  
tggttgagta gtaacttggt ggacaatgag tcaactccgg aagacttccg tcttgccgtt 240  
ttgtcttcgt tgggtcagtt cgttcgacat gacagaccaa gacttgctt tgcctcgaaa 300  
gataacataa agaatctgtc ttatgtattt gaaaataaca agcaagagcc tgtttcaatt 360  
atttataaga caatcttgcgtt gttttggatg ttatcttgcgtt cacacagtgc tgaggcaaaa 420  
cagt 424

<210> 2427  
<211> 363  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E2

<400> 2427

gtccgactgt gaggtggcat acggagtggat attggcatat gttaaccagg acgttccgac 60  
gtgggtggaa ttccacgact tgcggaaagc tttgggtgaa gcacgcatta tggtagtctc 120  
cgttttctac tgcacaggt ggagatgttag ttgtaaatcg acatcgactt atctgcagct 180  
gcaagtgagc agattgctcg taatggAACc ccatggatgg tgagattccc gtttatctcg 240  
tttctttgtt tggaaagctgc gctacgatag ttcttggatgtt ggagtcttagt tggtttggat 300  
tacagcctta attttgtggg tggtaact catccttaggc tatatacgta aagtttagacc 360  
gat 363

<210> 2428  
<211> 69  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-E3  
<400> 2428

ctttggttcc cgcatgcgtt aagtttgagt ctgtaaaaaa gttcacgga tggactaca 60  
gttttaatt 69

<210> 2429  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-E5  
<400> 2429

atctttacga gaatccttct tatgtctcac cgaatcaagt tcgaagatcc ctgaaacctc 60  
aacaaggccta caaacggagg ttgaagttga agcggaaagg agctcagaag actcgagtgg 120  
aagagaataa gcttttatct gatcccggtt aagatatgtt tcgttcctaa tggtagct 180  
gtagactttt tggttccaat acacctaact ctatagagct gtaaaaacaa atagcggtt 240  
caactaaaaa tgtaaaaact acaaaataat aaaaaaaaaa tcaatgaaaaa gtaaaaacaa 300  
aataaaaaat aaagtaaaaaa aaatggagag tccttaactgt aaggatccaa aggtaaacaa 360  
aaaaaaaaaggg gcggccctca 380

<210> 2430  
<211> 407  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-E8  
<400> 2430

acattccgta cgttgttgc tgctctcgta tttcatcaat tctttgaagg atttgctgtc 60  
ggtactactg tttccgaagc ccagttggc acttggacca ctatagtaat ggtactttgc 120  
tattctttgg aaactccaat cggtatatct attggatttg gtattgcaca cacttatcag 180  
gaaaactcct cggcatctt gttaacgaga ggcattttgg atgccatctc cggtgaaatt 240  
ttaatataca caggatttgtt ggagtttgtt acttatttgtt ttacgcgcaa ctcgaacttt 300

ttaagacgca aagccataacc tatttttagt attgtggat ttgtctggtt aggagccatc 360  
tgcatggcga ttatccgagc ctgggcctaa gaataaaatt gtttgag 407

<210> 2431  
<211> 286  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F3

<400> 2431

cgtccgattt caacaaaactg gaagctactt tgttctatgc caacagttt catccttggtt 60  
tatttggaaaca cttgaacaac tgtcagacaa caagttgtgt ccccagagta tctctagtca 120  
agaccgcgcg gaaaaaaacac ttgcgcagcaa caagtaccgg ttctaaagct aatctgaaag 180  
aagaaggcagt agagactaac acaagatggg acgctccgccc tggcaattgg gaagagcacc 240  
cgagtcgctc aggttccaca ttttccgaga taaagttgcc aaagca 286

<210> 2432  
<211> 212  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F4

<400> 2432

cgacgcgtcc gcggacgagt gggagagttt gaggatgttc catatgccac ttctacacct 60  
tatccatcggtt tatctccaag ttatactcct tcagcatatc aaacaacttc tgcttattaa 120  
agagccgaag actggataga ttttgaagt gtctcgtgtt caaagaaaaac atgagacatg 180  
aagcacacacg tataggattt ggtttttacc cg 212

<210> 2433  
<211> 432  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G10

<400> 2433

gaccgacgacg tccgagaaaa tatcaagtcg aagatacaag acaaggaagg tattccccca 60

gaccagcaac gtttgatttt tgcaaggtaaa cagtttggaaat atggtcgtac tctctcagac 120  
tacaacattc aaaaggagtc tactcttac ttggtcttac gtctgagggg tggaatgcag 180  
atattcgtaa agactcttac tggaaagacc atcaactctg aagtggagcc ctcagatact 240  
attgaaaatg tcaagtcgaa gatacaagac aaggaaggta ttccccaga ccagcaacgt 300  
ttgattttt caggtaaaca gtttggaaat ggtcgactc tctcagacta caacattcaa 360  
taggagtcta ctcttcactt ggtgtgcgt ttgagatgtg gctgttaatg agtttacct 420  
gaagttgttt tt 432

<210> 2434

<211> 451

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G12

<400> 2434

acccgtccga ccacgcattcc gatcacgagc agtttcatca caagaaaata cagattccac 60  
gcttatatcg aaagaagtat tagaatctca aatcatggaa atgctagaaa gagagaacta 120  
tgaaggagca tttctcttgg ctctcgaggc tagtaatttgc gacgtcgtag aatggctatg 180  
tgagaagttt gattgccatg aattgtttca atctgatgag cctcccttgt cacaagtaac 240  
attgctatct ctatttcagc agttagggtt tgaccttgaa agaaaaacag aaatgaaaat 300  
ggaatggctg aaagaagccg tcatgttatt ggagcattca gatgaaatga ttcaagacta 360  
ttttcagat atttgtcaa tggggtgca gaacttgaa catcttctag aagctggttt 420  
gaataattct cgactttcag ttcatttgca g 451

<210> 2435

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G7

<400> 2435

agtcgtctgt gcgtccgatt cactgcggac tgtctttcct ctttgcgtct cgttatgcga 60  
tacttgcact cttcagaata tgtcaagata ccacaaggag tatcggtgga agttcactct 120

agaaaagtaa gagtaaaggg tcctcgttgt gtttagttaa aggatcttc tcacgtcaat 180  
atggaaatga cgaaagaaaa gtccggtaag agagttcgtg tgactgtatg gcatggctct 240  
cgaaaagatt tggcttgtct caacacagtt tgcacgcata ttaaaaatat gatcaccggg 300  
gtaaccaagg gctatcgata caaaatgcgc ttggtatatg cacacttcc tatcaacgtt 360  
actgtgtctg ataatg 376

<210> 2436  
<211> 356  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G9

<400> 2436

gcgtccgggtt gacagagtgt gttgataagt gtgagtataat taagttagta taggaaggag 60  
aagggaagtc aggaggcgtt gttgataatg gaaggatac tgtagttagtt gtttagtgta 120  
agagacataa tacgattttta tataagttat aaggagtggtt agtgagataa ggatggacga 180  
ggagatggta atgataatag catgtatggt agtccattgg agcaatttga agtggatcg 240  
ctgtataaga tggagataga aggaaggaa ataggataa gtaacatagg agtgtatata 300  
ataatgtatga gtatgtatgtt ggtaaagaac atgaggaaga aagaggatac tacggg 356

<210> 2437  
<211> 449  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H10

<400> 2437

acccgtccaa gtcgtatgac gttggtgccct cattaagcca tcgttgaact acatctttta 60  
tctctttagt cacaacaca aattaaagaa caatgcgtga ggttatttct ctacatattg 120  
gtcaagcagg tggtaagta gcaaactctt gctggaaact ctattgttta gagcatggtg 180  
tcaacgctga tggaccatt gataaaaagg gaaacacagc atacgaagaa gctttggta 240  
ccttcttac ccagacaagc tcgggacgat atttcctcg ttgtgtatgtt gtcgacttgg 300  
aaccttctgt cgtagatgaa gtccgtacag gtgcctaccg ccatctctat catccagaac 360

aacttatttc cgccaataa gatgtgcaa acaagtatgc aagacgacat tatactattg 420  
gaaatgaaat agtcgaccctt actttggag 449

<210> 2438  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-H12  
<400> 2438

ggaagacacg ccagttacaa tcctctcaat ctatcggtga cggatgattt caccttcca 60  
tataaacaag tgagctatat actgcaagat cacggcagca atggagaaga tgaagaagaa 120  
tcgcagcttt tttcgcttt cggggtagca gagcctcctt tatttccat gtcgttgcca 180  
gtagtcacaa ctgctactag tgcgtggaa agcgcggta tgcaagaaaat acttcgacaa 240  
gaaagtttc atctgcgtgc aagtgaccca acgataagcg atgaattatt tcaatccata 300  
gttactcgag aaaagagatg gagtaggcgt ctatggagaa actttcgacg acaagtttat 360  
gagagacgtt gtcgaataga agaagcagtc gttccgttgg ttgctcatag tgctgcgatg 420  
catctt 426

<210> 2439  
<211> 335  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-048-Q1-E1-H2  
<400> 2439

acgcgtccgc ccacgagtcc gctagtcgac gagaaacaga ttcacttatg tatTTGCCA 60  
ttttgggtat tttgggtact tatggataac caaaaacaac acaaccatta ctcttggat 120  
tgctgcaatg ctcaccacaa ccaaccaacg acagcgagtc gttgcaacgg atgttacgtg 180  
acgaatattc ttgtgaagag tgtgtggaa catttggacg agctgaatcg ttgtctgtt 240  
cgagttcaag agttgttggat gttggacaag gaacacgagt gaatgaatgg tgccgcaagt 300  
taggagaatg ccacaatacg gagacgtgga tata 335

<210> 2440

<211> 281  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-H4  
  
<400> 2440  
  
catcagacgt cgaatgggtt tctggacccg cttaacttagg gaaacgaaaa gagagcataa 60  
tttcagcaac acacgggtta acttaacgtt acctttgcg ctatcagacc gtagtatata 120  
tgccaaggct ttggagtctt tttattatgt ctattccacc gttgaagaag agtttgaccg 180  
tcaaagaaga aattttccca aaataggggc gctttacttt gaagagctgc gaaggaaaaa 240  
ggtatctcta gaacaaaacg tgcttttca atactaaaac t 281  
  
<210> 2441  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-048-Q1-E1-H5  
  
<400> 2441  
  
ccccacgcgtc cgatcaaagc tagtgatagc tggtactcct cgaaagctat ataagtagcg 60  
tatgcaggaa agaagaaggt aaaggaagag aaggaagaag cagagaggga ctatgagcga 120  
gaaggtggat agtcgagagg gaaaaagccc agaagccaag ataaggatc aaagtaaaga 180  
aagaaggaaaa aggagaagaa gagagggtag gcttagaagc agcaaaccag agaggaaagc 240  
gttaaagcat gaaagaaaag aaatccaaa aagaagagaa aaaggttaaga aagaggaccg 300  
aatcagggtta agaggtanag gagcaagaag agaagagaga atgctgggtg gagtagcgaa 360  
acaagag 367  
  
<210> 2442  
<211> 316  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-048-Q1-E1-H8  
  
<400> 2442  
  
aacctcaagt ggatcatccc acgttggtaa agatagactt gtctcaaggc agctttaaag 60

tactccaaga ctgtgacaga gatttagaat gtgatcataa taccaagttt cagttggAAC 120  
ttattcagta tggctcttt tcacctggTT tttggacgAG agaaaATGTT ctgctttCT 180  
atTTggagCT cgtgtcaggT gtattcataa aggacACTCT ctaccTTTC caaaACAAA 240  
ggtaaAGAAC atTTgttgc gagTTAATg ctgttGTTGG agacacaAGT ttcaatGGAT 300  
GCCAACATTa aaACAA 316

<210> 2443  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A1  
<400> 2443

cggacgcgtg ggTTCTGGTT ggatttGTTG tgtctgcgtc tgTTGTTGCG agTCGAGTTC 60  
ataaaATGGCA aacgagaACC agggagAGGT agagacATA T gagttccagg CGGAAATTAA 120  
ccagcttatG agcCTTATCA tcaataCTT ttacAGCAAT aaggAAATCT ttttgagAGA 180  
gttgatATCT aatgcCTCAG acgcACTCgA taagattcgG tatcAGTCTT tgactgacAA 240  
gtcagTTCTG gaggcggAAA acttggAGAT tgaAAATTAC gcagataAAAC agaATAAGAC 300  
tctaactgtg cgCGatacAG gagttggTAT gactaaggCA g 341

<210> 2444  
<211> 374  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A10  
<400> 2444

aaaaaaAGAG aaaggAAAAA actgagtATC aggaAGAAA gagggAGTAT atgagGAAGG 60  
aaAGATCAAG gaagtGAGAG tgAGAGAAGG agtaATGTa atgatgcAG gaaAGTAATT 120  
gaAGAAATAGA gtggAAAGCG cgtaccATT GCATAATGTC ccAGCGAGTG aaaaAGGAAG 180  
caAAAGTCTC gagGAAGAAG tagCCATGTA acgatcGAAG ctAGGTGATC ggATGCTGTC 240  
catccGAact aaggctTAGC caatCTCTGT ggacAAAGAT gtggcAGAGA tggcaAAATG 300  
ggTGACAGGC tactcAGAGC tagtGATATC tggTACTCCT cgaACGCTGT ataAGTAGCG 360

tatgcaggaa agaa

374

<210> 2445  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A12

<400> 2445

atgatttgat tcctgctgtt gctttgaaga atactaaaat gaatgtgcc ttaatgaaac 60  
gtttcgccag cagacaccct gaggaaagtg aggctgttc gagtgcaact gttgcacaag 120  
gagacggagt tccaaaggta ttgtcgaatg aaaaaaagca actgccgcaa gacgactcga 180  
tagaacatct catctcaagt gagattgaag aatatcagaa agtgcctatgt taataaattt 240  
ggatcttgtt caagtcgtaa aaaaataaaa aataaataaa aaaaaaaaaa aaaagaaaaa 300  
caaaacaaaa aaaaaaaaaac aacaaaagcg atccatcaaa aatgatcaaa gctaaaataa 360  
cctatccaga aaaccacata aataaaaggg gggggccccccc aaaa 404

<210> 2446  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A3

<400> 2446

catccagaac gctctaacct ttaaatacat tgagcatggg caatgggtgc aactaatgcg 60  
ctgagttgca tctctcactc tttccttatac gctgcagcag ttgcagccga cgtatttca 120  
agaggataga tggggatatg ctcaacagac acaacaccag catcagtgcc aacaagtatg 180  
tttacagttt gcatactatc acagtcagt ctgcactttc gtaaccacac aaagcccata 240  
ctggacccaa tgctcgaaga ctgtgaaaaa ctttgcacca agccagtgcg gtacgtatac 300  
ccaatctcct acatggacct attgcagcac ctacaccacc actagcgtac catc 354

<210> 2447  
<211> 288  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A5

<400> 2447

gctcataacct taaattctt gaggattggc agtggttgcg acttatggc tgacgcgcaa 60  
ctctaacttt ttaagacgca aagccatatac tatttttagt attgtggat ttgtctggtt 120  
aggagccatc tgcataggcga ttatcgagc gtgggcctaa gaataaaatt tgtttgagac 180  
gtcgtggtgc agatgactcg catgttttgtt agttggttca agtttgacaa gagaaaaacat 240  
ttgttgctac ttcttacaaa taaaaaaagtt caaggacaaa ttgttagat 288

<210> 2448

<211> 335

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A8

<400> 2448

aaaacagagt gacaagaaga gatggcaagg agaatattgg gtgcttatat gggagatgcc 60  
acagtggcaa ctctgttcag tatcaaaatg ttgttctatc ttactatcat gggtttctcc 120  
ataactatct tggctctcat gggaaagaac tcggatggta tttggataca tagtgtgcca 180  
cctgcagatc aatattgtgc atacaagtct tcattggagg tgaaccacca tggaaattgct 240  
tcctattgca agtataatcgt tgccgtagct gctattgggt tggttatctc gtttttccag 300  
ttttgctacg gtctgttggg tatcttttc aagtg 335

<210> 2449

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A9

<400> 2449

aaatataatg aaaagattt ttctttatgc cagaattat ttgaaagttt tcctttggga 60  
catttggta tgggagaaaa ggagaaccaa cgagtattgg taattcatgg tggattattt 120  
agtcgtgatg ggtaacact agaagattt caaaagatag atagacatcg agaacctgac 180  
caaggtctca tggcagaatt gttgtggagc gatccacaaa aggaatttagg attaggagtt 240

tcaaaaacgag gaattggagt atctttgga ccagatgtga ctcgacgatt ttagatgcc 300  
aatcgaggattg ccttgttagt aagaagtcac gaaatgaatg aacaaggata tgaaatagaa 360  
gcagataata cattgattac tgtatTTCT gctcccaact attgcgacca aatgg 415

<210> 2450

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B1

<400> 2450

tttgactga aacatgacgg aaagcgacaa gtcagtgccc gttgtttct caggtccatc 60  
tggagctggg aaaagtacta tcataaaaaa gctgaacaaa gattaccctg atccaatagg 120  
atttaccgta agtcacacaa caagaccacc gcgaccgggg gaacaaaacg gagtagaata 180  
ccatTTGTT tccgagggaaa aattaaaaa aatgatagag aatagtgaat ttatagaata 240  
tgcgaatgtt catggaaatt attacggAAC aagtttcaa gcagtaaaga gtgttctcaa 300  
tagaggaagg ctgtgtgtgc tggacgtaaa cgttcaag 338

<210> 2451

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B12

<400> 2451

agaattatcg gttgcatac gatggctttt actcctctgg aggaagaggt tttcgaggta 60  
gaggtggccg tagaggaaga ggttagaggca atggaatatc caagtttgt tctcgagggt 120  
gttcatccgg tggcgttgt ggttagagggt gcggacagaaa acgtggcggaa atgaacggcg 180  
gttccaaagt gtttattgaa ccgcacatcgac atgctggagt tttgttgca cgggggaagg 240  
aagatgtct ctgttaccacg aacttggttc ctggtagtc cgtatatggaa gagaagcgca 300  
tctctgtcga agtagaaaat ctcaacgatc cttagttat agagaagata gaatatcgag 360  
tatgaaatcc attcgattc aagtttagcag cagctatTTT ggggggtgt 409



tcactaggtg aaagaacagg aagatagttt aagacgaaag tacgtaact tgccggataa 180  
aaagcacctt ctccagcaac tactcaatgc gaaccacatg cactaactaa aatttttga 240  
ctctgcagac gcaactttgg ccaaagttagg aaaggaattt gcctaagaag ttggcttgg 300  
atatgcctac ccaaactctg aggtgagtg ctc 333

<210> 2455  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C7

<400> 2455

acccacacgt ccgaacatga cctcggtcaa gtaaagaaac agctcttca atcgcttctg 60  
ataaaaaagaa aaatgcaaca agagatagag ctgaaaaat ctaggcggac gcgctgaagg 120  
atacgttctt catthaagcgt gcaagccacg tcgcccagatc ttccaagctg tgcccccggt 180  
tcatttcagt gggcgtcgtt ctgtacgtc gtaatggca ctgtccgtac gttactcaac 240  
gtaatctctg tgcaatttgc gtcatttcg cgagtcgggtg tcttaccgaa tagtcctct 300  
acgtttggtc tgccatacag ttacccttgt cgaacggcta ttgggacacc cc 352

<210> 2456  
<211> 244  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-D11

<400> 2456

aattataacgt acgtacccaa ttgtcgcaaa ggcttgcaaa gttttcccat cctttcat 60  
tacttctgtt acagtatcac atcgccctgtt tttcaagatg aggtcttaca tcaagtgtact 120  
gatgcactca aatttggact ttctacctaa tgtgaaggat accgcccattt gcaactttac 180  
tggcaatatac cttggttgca aagaacgattt ggaataggctt ggaattactc ggttaacatac 240  
gatg 244

<210> 2457  
<211> 233

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-049-Q1-E1-D3  
<400> 2457

cgtccAACCA ctagtcagcg tcatgaccgt tctggaatgt aagtgcgtt tggtgattgc 60  
acatccctct actggactat cgTTTgaaaa acatgtcgct gcacCTTtag gtgcacatgt 120  
caggTgtatc cgaagtgaat gcaATTggT accagATTT cgggTTaggc atcgTTtagat 180  
tcgctgaAGC cacagcggga gatcatctat acacGCCGtg cccttatacG gga 233

<210> 2458  
<211> 336  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-049-Q1-E1-D7  
<400> 2458

aggTgattgg aacggctctg gttgtcacac caactttct acaaAGCCGA tgagagagga 60  
tggcggttac aagaagtata ttTtgccagt gatggaaaag ttAAaggcaa aacataagga 120  
acacatcatt gcatatggaa agggaaatga aaagagactt actggAAAAC atgAAACGGC 180  
atccatcgat agTTTcttt atgggacagg aaatcgtgga gcttCAGTta gaattggcaa 240  
tcaaAcAGCA aaAGATGGCA agggatactt tgaggatcgt cgtcctgctg cgaatatgga 300  
tccgtatatt gtcaccatgc ttcttgcTc tacttg 336

<210> 2459  
<211> 155  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-049-Q1-E1-E10  
<400> 2459

acccacgcgt ccgcgtatAT cagaaagtca gtgcAaggaa taaaaaaaaa aaaaaaataa 60  
aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaataaaaa aaaagaaaaa 120  
aaaaataaaaaa gggatggggg tggagctcat gaggt 155

<210> 2460  
<211> 319  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-049-Q1-E1-E11  
  
<400> 2460  
  
cccacgcgtc cgaaaagaca gagaagttag acaataccat cgcagccgta ctgaacacccg 60  
acacaggtac tcgaggagct ctgacactgg ctcatggta gaacagttag gatgagggaaac 120  
tatgcatacg gatatcgat ctgcggcgtc acctatgata caatcagcat ctatggtttta 180  
gcatacatac agcactctgc acaacagaga aaatgtattc tagaaagtgt gcggcctgtc 240  
acatagtaga gaagacatcg atgatactga cagcggatcg atgatgaggt acacacaata 300  
gctgtcctaa ctgtcatga 319  
  
<210> 2461  
<211> 336  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-049-Q1-E1-E5  
  
<400> 2461  
  
agtggatttg ttgcaagttt gttgggttct ggactttaag gcatctctct tctcttggtt 60  
gtgtgactgt ttttagatat tgtgaaagat gggagtcaaa gttggattttt atgggtttgg 120  
gagaatttggaa aggcttagttc tttagagctgc ttggagaaaa cagtctgttag atgtggtagc 180  
tatcaacgtat ccctttattt atttggacta tatggtctac atgttcaaattt atgactctgt 240  
gcacggcgct tatccaggta cagtggtagc aaagaatggaa aaacttgtcg tgatggaca 300  
cgaaatggca gtgtttgcct tccgttgacc tagtga 336  
  
<210> 2462  
<211> 246  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-049-Q1-E1-E9  
  
<400> 2462  
  
agaacacgtc gagcaacaaa taagactgga ttcttcttgt agagtaaagc gacaataaaa 60

ctatatttgt agtcacgctt gttcaagagg gaggcatgag gattctcgta tggaaagatt 120  
gatgacagaa cttcagcagt tgctaagata gacttatgac catgtatata tgatgtgaca 180  
atacacatat gagacgttta ggtaactgtt gatgcattgt atgtttgat attagatgt 240  
caaaaag  
246

<210> 2463

<211> 355

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-F5

<400> 2463

gacccacagc gtccacccac gcgtccgccc acgcgtccga tgaaaggat gaaatgcaga 60  
gatctctaga gaaaggcaag aaagaaaaaga aaggaagaca cagtaaatga ggcgagaaag 120  
cataggaagt gaaacggatt aggaacccgt gtatgttatg cagtaaaaaga aagaatgagt 180  
aagaaaaaaag ggagtcattc caccagggga gtaaaggcgc aagaaagaaa cccaaagcaa 240  
ttgacgggaa tcggaaaaag gggtgatca cgtacattaa tccgatataa accgagaacc 300  
ttacctctcc aagaaggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgag 355

<210> 2464

<211> 315

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-F9

<400> 2464

accatgcgtc cggtcttcgt tttatgcgag aatttcgttc ggatgtatgcg atcacgaaat 60  
agatgcgttc gactattgtat ggtcgcaacc actttgtat atctgcgggt agacgttccg 120  
atcctcttat gcgaaattca taagacgaac gtgtgaaaga atagttgcac tttgctaacg 180  
gaaagtttgt aaatcactcg gttcgattt ccacggaaaca taatgaagtt gtgttgccta 240  
agataatctc ttggtatagt gatgacgttc ctaggactgt gcatttcgttgcgttggg 300  
ttatactaca attgt  
315

<210> 2465  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G11

<400> 2465

aggtgaggtg ggaagcaaga agagatgagt agaggaagta gtgccggta tgatcgacat 60  
attactattt tctctccaga gggacgacta tatcaagtag aatatgcctt taaggctgta 120  
aagtcagtag gaattaccac cgttgctgta aaggggctgg atgcagttt tggagtaact 180  
caaaagaagg ttccagataa gctcattgac cctaaatcag tcaccaatgt tttccgaata 240  
tcggatcacc acggctgtat tttcactgga ctgcacgg acgcaaggc acaactaca 300  
cgaacacgat cgaaagcgc agatttcaag tttaagttt gatacgaat cccgggttgc 360  
cagatagcga aaagattggc ggacatcaat caagttata cgcaacacgc atata . 415

<210> 2466  
<211> 362  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G4

<400> 2466

ggccgacgac gcgtccacaa cagattata cgtttcttgt atgaacgggt cacaactatt 60  
tcgtcctgaa ataacagcag actgcatttc cgaaatggac aagtgtgtgt cattgagagg 120  
aatcggttca agtcagttac ttttgagaa gcttcttgcg gaagaaggag agacatatcg 180  
tttcactgta ttttattctt gtgaaaaggc aagaagtgaa ggaattattc atccaaaact 240  
tgtcttaaac ttccacctt ttcaacctgt aaagcttcaa tggaggaagg actgcgggtgg 300  
aatgctggcg tcctctataat ccgttaggaac tacatggcat ggaagtgata ttatcaaccca 360  
ag 362

<210> 2467  
<211> 339  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G5

<400> 2467

acaactggct cctgtttaca gtccatcgat acaaaaagtc aagtatgtgc tttgctctgg 60  
aatagacatg ataaggagat cgtcagcagt catgggttt cacagaatca gcttatcgta 120  
tggaaatatac ctgcgatggt aaaaattgca gagttaactg gacacacttc gagagttta 180  
catttggctg caagtcctga tggtaaaaca gttgtttctg gcgcgttgtga tgagacatta 240  
aggttttgga gaatattcga ggcagcagaa tcgaagctgg attctccag taagacatgg 300  
agaagttcgc aaaagagtat gatgaagaca tgtaacatc 339

<210> 2468  
<211> 358  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G8

<400> 2468

cgggccgacc caagcgtcca gaaaaatgtt tgtcaacctc catatcattc cataccgtta 60  
tttagatccg tttgcttgta tgcagtggca ttagaaacca actttatcgt ggatgaacaa 120  
gttttggaga actgtataga ctatttgtgg aatgataatg actgtgttgg aaaggaggaa 180  
ataggagata tttcgaagaa tacatatcgt ctcccattt cttggacgt tgctcaacgg 240  
ttaggaatat cgctccattt attcatttc attgttagtg tttatcctgc aaaaatattt 300  
ggactacatt gcaaaggaaa actggaaaaga ggttatgtg cagatatagt cgtttggaa 358

<210> 2469  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H11

<400> 2469

agaatcacac atcatgacca acagcaacgt cgcctttgtt accctcttgt ctccaaacac 60  
tcctagaaaat aagctttgt tagggaaaag acaacattca tgtaaacatc cgagtcacaa 120  
tagttataca aagtatcaag atgctgctt caagtgcattc ccactgcaag caaaggaaga 180  
tggccaaaag ggaggtggaa agttcaatcc ttttgcggca cttggaaatg ttggaaactt 240

tatggacgcc gtgaagaaaag cacaggagtt ttcaaaggaa gctggaaaaga tgcaggaaga 300  
gttatcaaag acagagctga aagcttctgt aagtatttga acaaatacat gtttcttga 360  
ctttggaaac tagtcagagg acggttggc ccacgcatac ataac 405

<210> 2470

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H2

<400> 2470

ggccgacgac gcgtccagtg tgcattttct atggcttttg ctttgcgtgg tctagcgagt 60  
ctttcaagtc gtttgagtac ttggaaacag gttacaaga ttgttaactgt tgcaaataat 120  
tttgaacgag aaagaggact gcgactggtg agttccttcc aaagtgcgcg gcagtggact 180  
tcgttgcaag gtttgttatg tcgctataga agtgacagcg ttgtggaggg agggaaaaag 240  
caaaagggag tcgctactga aagaagtccct gtttctacag ccattcccat gggttatgcc 300  
gatgaatttt ccatcacgtg catcggttgc gtccaggaga tccaagtaaa cgaacgg 358

<210> 2471

<211> 335

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H4

<400> 2471

ggacaatgaa catcagattt ttggtaatt ggataagatt gctcctaatt tgcttgctgg 60  
tgataagtta caaagtgtca aagcgcaat agaggaagtc gtacagaaat atgaggcaac 120  
aagacaagag gcaatggaag caacgcgaag gttccaaaag attcgtgacg agcgaaggaa 180  
gcgttttctt tcatgtttca atgttagttt ttcgaatatt gatagagttt acaaagaact 240  
tactcgaaat tcagtctcgc agttgggtgg cactgcttatt ttggcactag aaaactacga 300  
agaaccttattt tatatggaa ttaagtatca cgcta 335

<210> 2472

<211> 376

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-049-Q1-E1-H9  
<400> 2472

actgagtgcc agtcagtcct tgcgtcttc cttggctcca cagttgaacg cagacgttcc 60  
tgataacttgt aaagagtgtg gaagtgacga ctgggtgaa gaccacgccc aaggagacgt 120  
catatgtaga aactgtggtt tggtagctgc ggaaagaatt gtagacttgg gttcggagtg 180  
gagaaaacttt gaaaacgatg acagcggtac agaccctagt cgtgtggag ggccgagcaa 240  
ccccctcctt gagtcgggtc caagtaccgt gattggagga gtagtatcg actctaaaag 300  
tttgaacgca cgtttaataa gggctcagaa tagacacagt acttcaaaaa gtgaccgagt 360  
tttggat gcgtt 376

<210> 2473  
<211> 255  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-050-Q1-E1-A3  
<400> 2473

tctttgtct tggacaatgg ttgcaaagac tgctctgagt tgcctcttc tctcttcct 60  
tatcgctgcc gcagttgcag ccgacgtagt ttcagaggcg agatgggat atgctcagca 120  
aacccaacaa cagcaacagt gccaacaagt atgtcaacag tatgcatact atcagagtcc 180  
agtctgcaca tccgtAACCA cacagagccc atactggac caatgctcga agactgtgca 240  
aacctttgtc ccaag 255

<210> 2474  
<211> 307  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-050-Q1-E1-A7  
<400> 2474

acgcgtccgg gtgtcacctg ggtctattgt gtgcatttag tgcattttt ccatgcaatt 60  
aatgaatcac ctcacatgct gtattatcta atctataccg gtttagaatcc tatgctaact 120

agatttatat tgacgtgata ctagtgcac agcttagaga tatatttgct atggcgcaga 180  
gcacatcgatg ctccattgtt aatcatatat gtgaacgtat tacgagtgaa cttcgttagac 240  
ttgccgctta atctaggcag attcccttca cttctcggtt cgtacagact gctgtacgtc 300  
tgttgct  
307

<210> 2475  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-B11

<400> 2475

agtagagatt ggaaaaat tcgtccacgc ttcgttccgt tactttttgt cgtgacaagt 60  
tataatataa aatggccaaa gtaaacccctg tgtcgctggc tcctaaacta agtgtaaacta 120  
gagagatagc tatcggtatt gggcttggta tagcggttaag ttttacgccc agggctttgt 180  
agagagagag ggagagagag agaggggcgc cacagtagcc aactgcaaag aagagaggcg 240  
tggaaatattt tgtggaatac atggacctaa ctttggttt tagtgtgcta tggatattcg 300  
ccagtgccat ctcggataca cgaaaaatgt aagaaaaat tatcgcgagt tggatgaaca 360  
agaacagagt tcctcgctgt cgtaaaaacc gccttggtt tgtgagatag caat 414

<210> 2476  
<211> 217  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-B3

<400> 2476

tccggaagac acagtaaatg aggcgagaaa tcataggaat tgaaacggat taggaaccccg 60  
tgttagtctat gcagtaaaaat aaagaatgag tacaaaaac gggagtcatt ccaccagggg 120  
agtataaggcg caagaaaagaa acccaaagca attgacggga atcggaaaa ggagtggatc 180  
acgtcaatta atcagattaa accgagaagc ttacctc  
217

<210> 2477  
<211> 369

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-050-Q1-E1-C1  
<400> 2477

atggcacaga atgctgcccc taatacgctg aaaagtaatc aaatacgact aagatattt 60  
cgcaacttga ttctgggttc taactttcc tacgttgttgc gcaatttt ctttgcagg 120  
catagttta ctgttgacata atttcgttta tggttgattt ctcttatcct cgttgcttgc 180  
agttattttct tcttacaaga cgccgcaaaa ccaacttttgc agagaggagt cctgggttgc 240  
ggaggctacg acatctccag caaggggttgc gatggatat tgcacgaga tgattttagat 300  
ctgttgcattt acagtcgtct gtgccatttt ttccaacaag ttttgggtca cgttggttgc 360  
gataccaaac 369

<210> 2478  
<211> 351  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-050-Q1-E1-C11  
<400> 2478

cggtcgaccc acacgtccac ccacgcgtcc gcccacgcgt ccggatttac gaagtgcaca 60  
gtgcctacta tcaaaccctt ttgactgttt ctggcaagtc agctaattcggt tcttccgggt 120  
tggataagaa aacgtggat gccatacgta gtgaagttaga gatgcaagtt ggtagtctg 180  
ttgttagatgt gtttttcgt gtgcaagtaa aggtttttt gtttgcgttgc gaaaaaaaaaaa 240  
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaagg 300  
gaagaagaac aagaggata agagaaaaga taagggtgtaa tgaaaagtaa a 351

<210> 2479  
<211> 281  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-050-Q1-E1-C3  
<400> 2479

ttcagatatg agacgtgtca agagacaaaa cttttctgtc cggtttacaa aaaataagtt 60

tcgtgaagaa aacccaaga acgcctaata ttagtagaaa ccttgtactg tttcggttc 120  
ctaccgagtc tgaaaatacc ggcaacacaa caaatcgcc tagcttacaa gtgtcgtctc 180  
acgggacgcc ttgcaccctt cataatcccc cggaatcttc gtatcctgag tatttcgtga 240  
aaaataagta ttcaactgtat agaacggac tgggttgaaa a 281

<210> 2480  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-D5  
<400> 2480

cgtccaagcg aaacaagaga aggaaagtaa aaggttaagaa agaggaaagg tttacgagag 60  
aaggaagtag aaagaagaga gtgttaaggcg gcgtcataag agaaatccga aaggagtaga 120  
agaaaagaga gagaagaaag aaaagaagag aaaagccgta ctgaagaccg acacaggtac 180  
tcgaggagaa aggagaccca aattaaggtg agagaatgga cgataaggaa ctaggcaaaa 240  
ggatatggta tctgcggtag aacatatgaa agaagcagca ccgactgttt agccaggaca 300  
cagcactctg cagaaaagag aaaatgtaaa gtatagagtg tgcccgtgg caaatagtag 360  
agaagaaatc gatgaaagtg aaa 383

<210> 2481  
<211> 452  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-E10  
<400> 2481

ttccccggca acgaacaatc acgaagaact ttgagaaaga attgtggtca aaagtactct 60  
ttatggaaaa tgattttagg aaaacatcga ttacctcgta catgttgctt tttggctgct 120  
tcaagagatg cctcattcgc tgcagcttt actattctac caaccgcggg agaaccgcaa 180  
aagaatactc caacagcttc cggatcccga ataaagtctt ctctctcgaa tatattgaa 240  
aataattggc tccattgcgg tcttccgata tgatatcgaa tttttgagga gttttctggc 300  
agcgagagtt cattgacaac tcctgtaaca aagatatcta tttgaacatc tacaggactg 360

tcttctgaaa ctattcggttc aaagtctcga aagaaccagt gaaaaccatg aactgttctg 420  
ttgacccaaa taaagtgaag tgactttgat gg 452

<210> 2482  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-E11

<400> 2482

attttccaa atatccttg cgaaaacatg ttgcgtctac tcacgaaaag tattgcacca 60  
gttactaaaa gcattttgtt atccacagta aagtataata gtccttgca gctgagtaaa 120  
gcagagatat ggagagcttc ctatccaatt ggaaggcagac gttccttgca agaacaagg 180  
gcacagcagc agtccaaaga aggtgaagaa ccaataacgc cttatcaacc tgtgacggag 240  
aagctggata aaagagaccc aaactaacct tggaaagtggaa gaagtttct tcctgaacat 300  
agctacaaac ccaacacctaa tatcaatctg gaaaggcatc atacacccctt aaagatttag 360  
agatagggta gctcgaaaa atcgtcaagt ttttaagatt ttttgccgat gccttttcc 420  
agaaaacga 428

<210> 2483  
<211> 290  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-F5

<400> 2483

tagaggact ttatgtcgaa taggaggaga aaactcgagt ggtacgttgt ggctgtctt 60  
ctagtagttt gttgctcggt tcgtcaagtgc tcgtccttg atttcatatgc cgaagctgt 120  
tggcaggctg aagacgtttg tttcgaggac gacatagaac aaggagggtgt cttaagcggc 180  
aactttgatg ttttggaccc tgaagagtgc gatgtcgatg tagagttggat tcgagtgccg 240  
cgagaaggag ctccccagtg tgagtggag tggagagggg taaggggggt 290

<210> 2484  
<211> 332

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-A5  
<400> 2484

agcccacgct tccgggttta tagtaatatt ttaccgtatt tgaaacaaag attggacggt 60  
atctattgtc atcaaccacc gcttcagac attagaaatg aaaaccgaaa agatataattg 120  
gccaatgtta ttatcgatga acaacaatat cgattgtctt tgaccaatac tgccaaattg 180  
ttatgcattt ctgcttatat ggcttctcat atttccccaa aacgagactc gaagatattt 240  
acaaagaaaat cgacgcgtgt caaaaaacat cgcaggagaa ccaactcatc cactctgaca 300  
gaagccattc ctttcgttt agaaagactg tt 332

<210> 2485  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-A6  
<400> 2485

cccaagcgtc cgtccacgct tccgccccatg cgtccgcaca cgcgtccgga cccaaagatat 60  
caaaagtttt agattggatg aatgctgatg aaatgttatac gagaggcttt aaagaacata 120  
tttatgaggt tttccatat aggccggcac actggcaagt tggcactttt ctccgccact 180  
atgctgcagg atgtacgaaa aatgacggag aagtttatga gagatccagt tgtgattttg 240  
gtgcagaaaat atgaacttac actggaacgt atcagacaat actatatacg agtggaaagtc 300  
gacgagtaca agtttgatac tttatgtgac ctctacgaaa ctttgactgt tacgcaggct 360  
ataacttacg tgaatacacg gacgaaagtt gactggctca cacaggagtt gcgagaacgc 420  
gact 424

<210> 2486  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-B10  
<400> 2486

cccacgcgtc cgtctcaccc caactagtag aagaatatgt tggcgttac ttgtctcaca 60  
gactgtcggtt ggtagagac ttctcgattc tccagatgtg ccaaagccaa taccgtctcg 120  
ttgcgacgta gttcccagtg ttcacactct tggaggagtg tttcgatgaa ctacagtccc 180  
tattcgataa ctaccgacaa atcagaagga catattgttc ccggtaacttt ttcaagattt 240  
gagtttcttg aaggtcgagt caccggtcca accgtcttga accctagcat acttgacttt 300  
acagtgtcca atgtttcaga tgctgccttt ggagaatgga gagcaatatc ggcttcaagt 360  
agagcaaaag aacttggaaaca cagaagaaac g 391

<210> 2487

<211> 383

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-051-Q1-E1-B4

<400> 2487

acgcgtcagc ccacgcgtcc gtttccaact tatgtcggtg cagcaggaac gactattact 60  
acttggtttg tgaacgcttt caactttgcg ctttcattct cgtggccttc tatgaaggct 120  
gcatggggac ctcaaggagg tttcggttac tatgctgggtt tcaactttct tggcatcggt 180  
atgcagttct tattcttacc tgaaaccaag ggcttacat tggaacaaat gagagtcgtg 240  
tttggaggagg gtttattcac catgcagct tatcaactgtc gtgctgggtt gagaacactt 300  
cgtaagcttt tggacttcc agttccagac actcctcttg tttctcccta ctataacgcc 360  
tacgctattt accgcgttta gag 383

<210> 2488

<211> 95

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-051-Q1-E1-B5

<400> 2488

cccaagcggtc cgaatggca tagatgtcat ggtaaccaag gaaggtatcg tgcaacacat 60  
caactttcaa aagacagcct ccaaatgcaa ctttg 95

<210> 2489  
<211> 363  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-B9

<400> 2489

cccacgcgtc cgccccacgca tccgcgtttt ttttggtaaa agaacatggc agttggaaag 60  
aataaaacgcc tttcaaaaaa aggcaaggga gtgaagaaga ggttgacaga tccgtttctt 120  
agaaaggaat ggtacgacat aaaggccccca gcaatgtttt ctcaacgtca ggttggaaag 180  
actttggta ccaagacaac cggaacccaaa attgcttcgg aatcactgaa aggtcgagta 240  
tacgatgtttt gtcttgccga cctgagtagc aacaaagacg agagttggc gtacagaaaa 300  
attcgtttgc gttgtgagga agtggaaagga agaaaactgtt tgaccaactt ttatggatg 360  
gac 363

<210> 2490  
<211> 109  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D10

<400> 2490

acccacgcgt caagtcaactg gaaagtattt gaatagtaag ttgatacttt gagggcctgct 60  
tgaaaagtgg aatcataactt gtctaccaag aatgtctctt cgtttcaca 109

<210> 2491  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D3

<400> 2491

gtccgtttga atgacagaat taggttagtag taagagacag ccagttgggg ttcaagagtc 60  
tccaagaaca agtgcagaaaa atgagaaaaa ggaagctata gctaacttag ctgtcatgtt 120  
tccaaacttg tcgcgcactg agttatcgaa cgctttggaa gctaatacgat attcagttca 180  
aagaacggtt gactacatac tctcgaaaaa gtcctcctcc tcacccggccg cggcagcaga 240

agatgcgtcc gaagttgccg ctcgcacatcg tcaggttagag gaagacgaac gtttagctcg 300  
tgccttgcaa agcgcttatg aacggaaaaa taatgttcaa agacagacca tgtctcgaac 360  
gagttggac tcatcagcag cacaaactcc tttgttggaa aagctcaaata tatacgaaag 420  
agc

423

<210> 2492

<211> 84

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D4

<400> 2492

acgcgttaagg tcaatttcaa tgattcactt aggtcgtagt aagagacacc cagttgggt 60  
tcaacactct ccaagaacac gtcc

84

<210> 2493

<211> 201

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D7

<400> 2493

cgactcaagc gtacgccccac gegtccgtat gtgtaatatt caagaagagg ctcggggcaa 60  
ttatgagaag gttggcacat gtaggtgctc taagaggtat gtagtcagct cttagggttgg 120  
gtgtcatgtg tccacagttg tctaccagtg gattagcgag cgctttggaa ggtgatagcg 180  
attgagttca aagaagggtt c

201

<210> 2494

<211> 231

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E1

<400> 2494

cccacgcgtc cgccccacgca tccggattgt tgaagaaaata aacaaggaga atggttttg 60  
gtaaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 120

aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 180  
aaaaaaaaaaa aaaaaaaaaaa agacagcgaa gaaaaagaaa gagaaaggca a 231

<210> 2495  
<211> 120  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E11

<400> 2495

tggcttcctt ggtcagtcc cgtaaaagta gcggctccc gaagacgtgg ctcattgg 60  
tttggacaag gttctatatg cagtagattg gctgtctcat gtgggtcccc tatctgcgaa 120

<210> 2496  
<211> 211  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E5

<400> 2496

cgaccgaagc gtacgagcaa actgtgttt tgccggaccc cttggaatcc aagttgcata 60  
tttgcttgaa agaagtccaa tggaaagcggt tcgacaggag cccaacatgg ctcgtgagcg 120  
tttgcagggt agcaattcac gaacggaagt cgatacggac tagcgctcca gtgcacaaca 180  
acgcagtcgc agcgcctagt tctgccaccc g 211

<210> 2497  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E7

<400> 2497

agccccacgcg tccgcccacg cgtccggaa gcagaagtat tcgttagcaaa gttgggttagc 60  
tgggcgacag tcataact gttctatcg acagtgaaat gcttcctaa tcaagtggaa 120  
aactaccaat tacttgttca gcacgagtga ggataacttg aacaaatcct catatggaa 180  
gtgacacaac gtatctcaac taagaaacaa tgtgaaatat atccaacaac gtcactttt 240

attattgaga caaacattgat ggcggagcac aaaacaacca caaaactatt gcgtctgcat 300  
tctatatcct cgcatgttcaa atagaaattc gaaggctatt tggagagtgg ccagtttaag 360  
tcatctgttg aagaaaccct ttctctgtca aacccacaaa agcgataat atgttgttt 420  
tt  
422

<210> 2498  
<211> 262  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E1-E9  
  
<400> 2498

gtcagcacat ttggctggat tccgagagag tgcatggtgt cacgacaaac gtttgctgaa 60  
gacaagactt ttacgttttt atcctttca atgtctgcag tggaaagtcgt acaggtaaat 120  
gttctaaatg atcctgggtt cttcgagac acgtttgtt ttgaaataac ttatgaagtg 180  
agacaagcgt gacaacacga tagtgagtgg aaagtaattt aggtgagttg tgccagagag 240  
gagagtctgg accaagtttt gg  
262

<210> 2499  
<211> 358  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E1-F1  
  
<400> 2499

cccacgcgtc cggcgttcca cacgtccgag tgggtgtct tgtcgttaat agtcctctct 60  
agagacttca atataaaaata acaaacagtt gtaaaaagct attcactttt ctctatgaga 120  
acgagtgcgtc aagtgtcacg ggggtttgc gcgatagaac gatatacgg agcagacatg 180  
ttatagctgg tctacttgga agcagttgg agtttacaag agaaacgagt tgggtctgt 240  
tgtgtcggtt ttcaagttta catacgtgaa tactccaagt attgaacaat aaattggttt 300  
atttacgaca aacaaaaaaaaaaa aaaaaaaaaat aaaacaaaaaaaaaaa ataaaaaaaaat caacacgg 358

<210> 2500  
<211> 377

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-F10  
<400> 2500

gaccacacgcg ttaggaagcg ctgtacgcaa aaaattgaac aacactacag atagcgatag 60  
tgcgtctgat atgactggac atatatctga tagtattttt tatcactcag gaggagatgt 120  
ctcttctgat caaaattccg tgggttctcg agaagatagt ataccggaga gttaccactc 180  
aactcgtcgt cgtgattata ttgattggaa tactttgaaa aatcactttc accttccgat 240  
aatatgaagct tcagccaaac tgggtgtatg tgtgacggta ttgaagaaaa tatgtcgtcg 300  
tttcggaata tcgcgatggc cacaccgcaa attgaaatct gtagctagac acattgaaag 360  
acaagaacga gcttttt 377

<210> 2501  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-F7  
<400> 2501

cccacgcgtc cgcgctcaat atacttctta ctacggcgaa tcatcctcca gctattatta 60  
ccgagcagct gctcctcaga gatggatga ggaacaatgc acctcataact gctgggttcc 120  
agtacagacc tatgaaactt atcaatgttc tcaagagaag aagaaggagt acagctatcc 180  
ttgtcaaact tatgagcagg tttcaactac ttaccagtgt ggtcagtgac agtcccaaca 240  
agtttactac caatgccaaa agtataagga ggttactcag caagaatgcc agtacgtcca 300  
agagtcgtat tgtgtcgagt atgaagaatg tcagcaagtt acccaggaag tttctccttc 360  
agaaattgtc tactacggtg aatcttcttc tagcagtagt tactactact a 411

<210> 2502  
<211> 211  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E1-F8  
<400> 2502

gacgcacgca tacgacgtta tgcagttgtc caagctattt taagtggaga agacagagtc 60  
gtggtcatac actttggtca ggactttgac ccgacatgta tggttatggga cgaaacagtt 120  
tacaacggca gcagaaatga taataatttt tgctgtcgac tattttgtct atatgcggga 180  
agtccctgac ttccacgcga tgtaccacct g 211

<210> 2503

<211> 343

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-G1

<400> 2503

ccccacgcgtc cgaaaaatgt tcgtgtctta ctccgtacct gcaagaaaact taccggcttt 60  
ggcacgtaac ttttccaatg tctgtctctc gaggagtgg ctgagagggg gatgtttacg 120  
aaatgtgaaa gtttcaacc acaaacgacc tgcaaggttt ttatctacga aaatgagagg 180  
aggcgaccat gaaaggagag aacttagtcg tcctatgcgt acgcttgatt ccgctttcga 240  
cgaactttta gctttgcgc aggatccctg gtccatgttt cgctctccat ggagtctgtc 300  
gcccagaagt atggcagtag acacgtggat gcctcgtgtt gac 343

<210> 2504

<211> 274

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-G3

<400> 2504

cattatctgc gttgtttgggt gatttcttcg tgggtttgcg tctcaagatg tcattttga 60  
aacgtataca gtcgactctg ctttccaaca gaaactcagt aactaagacg agtgaggcca 120  
attcccacat acagcacgtt cgagtttacc gctgggactc tgaaaatcgg agaagaacct 180  
aaatgtggtc acgtaatcca ttccctccaa gtaatgcagt cccatcgtgt tggacgcct 240  
catcaggaca tacaatgaca tcgactctac cttt 274

<210> 2505

<211> 367

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E1-G4  
  
<400> 2505

acgcgttaagc ggacgcgtgg gcggacgcgt gggcggacgc gtggcggac gcgtggcgg 60  
acgcgtgggt tcgcacatcg ataatccacc caacagaaca acgctggtgg taataagagg 120  
agcagcagct ggagcacaag gtgatgatcc atcgcagcag cagcagcaga cttgccgg 180  
gtcgaaaaat accacgacag acgacctgtg gttgtttgt aacaacaact tggtgtcatg 240  
aaaattccaa gtggagtaat ggcaagttat tgcctcgta aagtttatt tccactggc 300  
gcccattttt gaaacgttac aaccatagaa agttgttgc gttccctacg aaaacttgc 360  
ggccaa 367

<210> 2506  
<211> 263  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E1-G5  
  
<400> 2506

cggacgcgtg ggatgttaat gttgcagtat acgacagaga agagtgttaag ggttagaggaa 60  
atgaatatcc tggaggaga atggtaatgt atggactaat aggagtaatg ataatgtatg 120  
cgttaagagg gaagggagta ctgggagttac atgtacgaac gtcattttttt gggataagta 180  
gtgtataat aatggaaata atggaatga tacatgttgc aagtacgtca tacacaaaca 240  
tggagtccat gaaaaggttt acc 263

<210> 2507  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E1-G7  
  
<400> 2507

agattgtcat catgaaagct gccgttttg cattttttgt cttttttttt ttatgtttttt 60  
ctattcaagc ttctcctcta gagggaaactt tgggtgcctt tatgcggggtt gtttatcaat 120

cgcaaagcca agcaccaaaa cctagctgtt gcaagtttag ctgtcaatat acccaaattt 180  
gtgaacaagt tatccagact cagcaagtta tccagactca gcaagttatc caaactcagc 240  
aggtcatcca aactcagcaa gtttaccaaa cacaacaagt gcagcaaaca caacaagttt 300  
cgtcagcata cggacgcaat gaggtatcca gagggggata tgcccaacag tctgtaaccc 360  
cagctcctgc aacttcccgt ggtccacggt tcaagtcaag tgctgtaatt agtgctcatc 420

<210> 2508

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H1

<400> 2508

cccacgcgtc cgacaaaagtg tcgtttacaa aagaaaagtat cacatattcc ctcgtattgt 60  
gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc ctctgctatt 120  
ccagaaggtg aacagcctga cctccataca aagtgggagc agtgtttaca agagaaaagg 180  
tcaccagagt gccaacagtg tcaaggttca ggacaaatac catgtcctgc atgtgaagga 240  
aagggttatt tcgtgatgga agtttcaat gttacctcta gtaaccagtg tcaagttgc 300  
cgtggacacc gtaaaaactcc ttgcccaact tgtaaagaat acatttatcg ggcagtaaaa 360  
gaattatgat ataaaagtaaa gctcaatctt tagaaatgga aatattgcct ccagtaac 418

<210> 2509

<211> 369

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H10

<400> 2509

gagggcacgac tcaggtcctg atgtcgcgt cttcggtaca aggtaaaaag gaagagggag 60  
ttgccaatgg gacaagggtt ggtacagcct ttggggacgg actttgcct caaagtcaact 120  
ctgttagactt gtcgtctcag ttgggcacccg cagcggaaag tgaatttgc gtcgacaatg 180  
caaacgatac tgagaaccat caagtggcgc atagcaccat tgaactgaat tccaataccg 240  
aagtggttca cgaccaagta gaagcgactc attcgacaag tggaggcgca gcacttcgag 300

atatttgct ggaaatgtca gatggcctca cagttccctt tgcactagca gctggaatgg 360  
ctggtgccct 369

<210> 2510  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H12

<400> 2510

acgcctgcag gtagcggttc gggggtcgag ggacgagtca ggctgttctg tatggacctc 60  
gataaggaga ctatcgaacg catatccaag ctgtccccgg aagaaagaaa ccaagtggaa 120  
gaacgtgtga agaacgagat gttgagacaa gttttcaag agctcgttca gactatatct 180  
gaaaagtgtt tcctcaagtg catcacgaag cctggaagtt ctttgacatc aggtgaacaa 240  
acttgtcttg caaagtgtat ggatcgctat ttagatgcaa tgggaatcgt ttccaagacg 300  
ttaatagaga gaagttcacg taactctaac tagttgtgt ttgatccgag gattttgac 360  
ctgttagaaa ttgcagcgtc ctgaagctag gatagtggaa caagaactag t 411

<210> 2511  
<211> 290  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H4

<400> 2511

acgcgtcagc ggaaacgtgg gcggacgcgt gggaaagagggc aaatacggga aagcagtaaa 60  
agaagaaaaga gaaaggaaaa aactgagttat caggaagaaa agagggagta gatgaggaaa 120  
gaaagatcaa ggaagtaaga gtaagagaag gagtaatgt aatgaaagca ggaaagtatt 180  
tgaagaagag agtgtaaagc gcgtaccctt tgcataatgt cccagcgagt gaaagaggaa 240  
gcaaaaagaa agaaaaagaa gtagccaggt aagacccgaa gctagttgat 290

<210> 2512  
<211> 336  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H7  
<400> 2512

cccacacgtc cgctcacgca tcagactcga ccaaagttgc aaacacattc gtttccagat 60  
actcttatat ggtcgcaag tgtctgaaac tttagtctc ctatatgtat acccactgga 120  
aaaacattta gtttcatttga tggacatagg tatagagtac cagattgctt caagtgggg 180  
cagaatggta acgacgatgg atcgatatac agatattgt gcaaacgtac aaagaggctg 240  
gcttgctcat gtgctatctg acacagaatc tatcaccaca ttttcaagtg cttctgatgc 300  
tattcagatc ttccgttaagg aacataatgg agttat 336

<210> 2513  
<211> 346  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H8  
<400> 2513

cccacacgtc cgcccacgca tcggccacg cgtccgccc cgcgtccggg cgctgggtgg 60  
tggtttgggc tattgtgtcc ctcactacga gtttggttt tctgttgtgg tgaagacttt 120  
gtttagcaac ttgtgtgcaa aaaatggtca acttggta tactgatgag ggacgaaacc 180  
tgttaaaggc ctaccaactc attttatatg ttgctatgtt ggcttctcc gccactattt 240  
tggggcttat gggaatccc atgttaatc tctatcta at tgccaatgaa tatagacacc 300  
cgatcccttag cgaacctttt gtaccattt acaaagtgaa gaacgt 346

<210> 2514  
<211> 301  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A1  
<400> 2514

agccccacgca tcgggttta tagtaatatt ttaccgtatt tgaaacaaag attggacgg 60  
atctattgtc atcaaccacc gcttgcagac attagaaatg aaaaccgaaa agatataattg 120  
gccaatgtta ttatcgatga acaacaatat cgattgttt tgaccaatac tgccaaattt 180

ttatgcattt ctgttatat ggcttctcat atttccccaa aacgagactc gaagatattt 240  
acaaaagaaaat cgacgcgtgt caaaaaacat cgcaggagaa ccaactcatc cactctgaca 300  
g 301

<210> 2515

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A10

<400> 2515

aacaactagc ccaaggatataaagaaggaa ttcatggatctagaagaata tttcatacaa 60  
ggaatggaat attggctctc ctgttttatac atagagataa agtgttggttt caaaaagtgc 120  
ttggatattt attagtattt ttgatatgtt tggagtgtat tcgggtgcata gtagttggc 180  
tgaatgagtt ggcaagtcgc ttattttatac ccattatgag aaagaacgag actagacgtt 240  
tcagtggat gggttattat cttgcgggag tcctgtatgc ttcctgttat tttgactcg 300  
ttgtttttaa tttgggttattt attcatttgg ctattgg 338

<210> 2516

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A11

<400> 2516

ggtcaggagt tcccgacg actaagccga agcgtcgcc caagcgtctg gtctcattgt 60  
agtcgttaatt gaggaatacg cagggcgaca gtaacgaggg gaatggttat aagacagtat 120  
gtgataccga gtcgtgtatc gcagctcgac ggcgagtttc aagagcgc当地 ggctggatgc 180  
aactttacat agaacaccgg gaagtacgac cgatacatct gacatctatt tacctgtatg 240  
tgtccttcat cggtcattat gcctttattt aagggtgtcc ttggggcggca agaaaacaagg 300  
ctagtcatcc cagtagaaacg ttttatgacc ttg 333

<210> 2517

<211> 378

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-A2  
<400> 2517

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acggtatcta ttgtcatcaa ccaccgctt cagacattag aaatgaaaac cgaaaagata 120  
tattggccaa tgttattatc gatgaacaac aatatcgatt gtcttgacc aatactgcc 180  
aattgttagt cattgctgct tatatggctt ctcatatttc cccaaaacga gactcgaaga 240  
tatttacaaa gaaatcgacg cgtgtcaaaa aacatcgacg gagaaccaac tcattccactc 300  
tgacagaagc cattcccttt cgtttagaaa gactgttggc tagttatcgc gtcattcaac 360  
aacaactggg ccaatcat 378

<210> 2518  
<211> 110  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-A4  
<400> 2518

agccacacgt ctgacaatga gttaggacac gagtgtgagt gacgtctaga gcaggaagta 60  
ttccttcatc acttttcgta ctaactgtct ttttgtatag tttcttgtgt 110

<210> 2519  
<211> 245  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-A5  
<400> 2519

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gcagtatcta ttgacaacac acaccgctt cagacacata caaatgtata tatcggtgac 120  
ataatggatc cggtaaatat cgaattttta ccatcagctg aatgtctctg tccactactg 180  
ccaaaatgtt cggcaccgct cctcaaattt ccgccccacac caccccaccc cgttattcga 240  
caatg 245

<210> 2520  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-A7  
  
<400> 2520  
  
agcccaagcg tccgtccacg cgtctgcgca tgcgtccgcc cacgcgtccg gttacaatat 60  
atcaaaaagtt ttagattgga tgaatgctga tgaaatgtta tcgagaggct ttaatgaaca 120  
tatttatgag gttttccaat ataggcctgc acactgtcaa attggcactt ttctccgcca 180  
ttatgccgca agatgtacta aaaatgacgg agaagttat gagagatcca gttgtgattt 240  
tggtgtcagaa agatcaactt acactggaac gtatcaaaca atactatata ccactggata 300  
tcgacgagta caagtttgat actttacgtg acctctacta aactttgact 350  
  
<210> 2521  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-A9  
  
<400> 2521  
  
agcggacgcc gtgggcgcgg acatagaatg gcaacagata aagtcaagcta agaagatata 60  
ctcttatgtta aaagaatcaa aaactaaaga atatggag cttagacgatt cggtgcagca 120  
gccagtggtat tcatcttgcata gcaccaagtg gctgtttatt gcaaccccac tggttggaaat 180  
tgctttact gatgggcagc gaattgaaat gattcctttg aagaaagata taaaggaatt 240  
gtttttctct actttaaaga agaactttga gtcgaacgaa gcgtcatggg agtgcagtgt 300  
agttgaaacc gcagttgctg ttttatcca gtattatgaa cagtgtgtgg aacagtacta 360  
tcttagcaagc atagattatg agctacctgg ttat 394  
  
<210> 2522  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-B11

<400> 2522  
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ccttttccaa actacgcata gtatggatag acgatacgg agagggatgg gtatcgagtt 120  
ggggatcgta ctacatggca aatgtgtgtg gagtaatgat ttatcacgat agacactgtc 180  
ttcactaacg ctagaacagg agaaacgaga gaacaacagc tacactaatt actttccgg 240  
tctctacact ttattcctgg tgaacgaaaa aatgcaaggg acatgaccgc agacagctac 300  
ttggggttgta tccccccaga ataaacactt cctaaactcc catatgtcac caatacacgt 360  
gtaaagattt tactggcatt 380

<210> 2523  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-B12  
  
<400> 2523  
  
cgcgtcagcc caagcgtccg cccaaaggcgtc cggaagtaaa tagacgtttg aaatgcgtct 60  
agtatgaaaa gagacacgag tgtaaacactg tccaaatcctc caactcagcg aaacagcagg 120  
aactgtgaaa atgcagttaa ctagcagtat gacggacaga ccccaaaaagt cttgactaga 180  
taggttcacg gaggagagag aatcatgaag tacaggaggt ggggtaagac atgaacgacc 240  
actgcattgag gataacgaat ctgactgagt aagggaaaccta agcttaagct agtttggctg 300  
gggaagttta cctaataaaag agtaacttag gcaaggcatag gcatgagaga agtataatag 360  
cacacgcattg catgaagata aagagtgaga tttcagaaaa 399

<210> 2524  
<211> 368  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-B4  
  
<400> 2524  
  
cccaaggcgtc cgtttccaac ttatgtgcgt gcagcaggaa cgactattac tacttggtt 60  
gtgaacgctt tcaactttgc gctttcattc tcgtggcctt ctatgaaggc tgcataaaaa 120

cctcaaggag gtttcggatt ctatgctggt ttcaactttc ttggcatcgt tatgcagttc 180  
ttattcttac ctgaaaccaa gggcttaca ttggaacaaa tgagagtcgt gtttgaggag 240  
ggtttattca ccatcgcagc ttatcactgt cgtgctggtt ggagaacact tcgtaagctt 300  
ttgggacttc cagttccaga cactcctctt gtttccct atgataaggc ctacgctatt 360  
gaccgcgc 368

<210> 2525  
<211> 312  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-B7  
  
<400> 2525

aacacaacta ttcttttattt tcgcaaacct tgcgcattca ctcgaaaaat gtgtcttcct 60  
ttgcaaaaat cggcataactt ttgcgtcgat aataatgcgc aaacgaaaga ctagcggcaa 120  
gagctaaaac aggggcacca acagtcagtatggacaaac ctcaagtgga tcaatccacg 180  
ttggtaaaga tagacttgtc tcaaggcagc tttaaagtag tctaagactg tgacacagat 240  
ttagaagtgt gattataagg ccaagttca attggaactt atgcagtacg ggctctgttc 300  
acctggctgt tg 312

<210> 2526  
<211> 397  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-B9  
  
<400> 2526

gcgtcagccc aaacgtccgc ccacgcgtcc gctttttttt tggtgaaaga acatggcagt 60  
tggaaagaat aaacgccttt caaaaaaagg caagggagtg aagaagaggt tgacagatcc 120  
gtttctttaga aaggaatggt acgacataaa ggccccagca atgtttctc aacgtcaggt 180  
tggaaagact ttggttacca agacaaccgg aaccaaaatt gcttcggaat cactgaaagg 240  
tcgagtatac gatgtttgtc ttgccgacct gagtagcaac aaagacgaga gtttggcgta 300  
cagaaaaatt cgtttgcgtt gtgaggaagt ggaaggaaga aactgtttga ccaactttta 360

tggaaatggac tttgccagag acaagcttg tgggctc

397

<210> 2527  
<211> 161  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C10

<400> 2527

ctgtctgcag atatccaaat gtcttatcaat actatgacgt tcaacattgg cagcatccgt 60  
tgcaagtgcc acgtacgcaa tccatcagag tgtaggaaac tataacctcta tagtgagg 120  
aatgaacag cataatctct aagacataat ctgcggaat c 161

<210> 2528  
<211> 149  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C11

<400> 2528

ccttttctac actttcatag ttaatttaac actcatttct atacaacctg tacgtttgt 60  
atatatgagt ggtggttcct cattgttact catagctgag tcgggatatac ttataaaatc 120  
caaaattttt cttctcgaaaat 149

<210> 2529  
<211> 172  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C6

<400> 2529

acccacacgt caaggagagt agcttggat gcagcgatgg ataagttcta acagccgctg 60  
gttttggtgc agaccgtgca ttggataca tgccctgacta ctcagtgacg tgattccgga 120  
tgacttccca actgtgctgt aattgcggct aggggtcgat cggtgaaaac gc 172

<210> 2530  
<211> 373

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-C9  
<400> 2530

cgcgtcagct ggagactaga cctagtctgt tgtcgcaatg aaactcaactc tgtatactct 60  
gtgtgtattg tctactgtaa ttctgatcat gagagctcaa cctatgatac ctcgtactgg 120  
tcctccctta aacgactgga ttcaagaggt agaggaatgg attccaagat aatttccatg 180  
atctgtccaa gaaaattttg acaactattat tcgaggattc actgcattgg gctgtattgt 240  
atccactgac tcattcatat aagtgcacta ttattactcc ttgattctag attctgcaat 300  
tttttgcaa gtaattgtaa ctatgtatga gagggcaaca gatcatttagg agatcgata 360  
acttgatact att 373

<210> 2531  
<211> 138  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-D1  
<400> 2531

gcgtcagccc aagcgtccga agaggtgtat gatgcaggca aagaagtgc gcagtagatc 60  
agagagtaac acatgcaagt aggtaaagcg aacgggtgag taaagaggtg taaaagactg 120  
gaagaacatg agagcagc 138

<210> 2532  
<211> 94  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-D10  
<400> 2532

cacgcgtcag gtcaatggaa agtattggaa tagtcacttg atacgttgag gtttgcttga 60  
acagtagagt cctacttgta tacttcgaaa gttt 94

<210> 2533  
<211> 154

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-D11  
<400> 2533

attcgtggg attccccaga gactacaat atgtatccac acatttgcta ttaacaagac 60  
ttttagttt ttatccctt caatgtctgc aatggaactc tgggacctac atgttctaaa 120  
taaccctggt ggcgttcgac accccctttt tttt 154

<210> 2534  
<211> 317  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-D12  
<400> 2534

acgcgtcagc ccacagcgtc cgccccacgcg tccgcccacg cgtccgcccc cgcgccgccc 60  
cacgcgtccg cccacgcgtc cgccccacgcg tccgcccacg cgtccgcttg catttggtga 120  
aaagacaaaag aacttggtta ttctcagatt cggttttagta ggtatgctga tcggaactta 180  
tgtttccatt atggaaatgc agaaaaatcc ggagtattga attgatatgg cattgttctc 240  
ctctttctct ttttgcataa gtttacaaca aaaagcccggtttt tatacttttc 300  
atgtaaattt tccttcc 317

<210> 2535  
<211> 306  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-051-Q1-E2-D4  
<400> 2535

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aagaagtggaa cttagaagac tacgtttcca gaccggataa aatttctggc gcagatattg 120  
ctgcaatctg ccaagaagcg ggaatgcaag ctgtacggaa gaatcggtat attatacttc 180  
caaaagactt tgaaaaggca tataaaatttgc tgcgtacgtaa agatgagcag gaatttgctt 240  
tttacaaata agacatgatt tgcgtacgtaa agaatgaatg gatgcacaag ttgcactttg 300

caactt

306

<210> 2536  
<211> 62  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E1

<400> 2536

cccacacgtc cgcccacgctg tccggattgt tgaagaaata aacaaggaga atggtttttg 60  
gt 62

<210> 2537  
<211> 328  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E11

<400> 2537

caatgcatac agtctgttag gtaactgaga accagagcaa atttgtcaaa tttgagaata 60  
atgctaatac agttttgaa gtagacacaa gcattatagg cctgggctta aacaatatag 120  
ttcctcttgg aggacgggga cgatacagac agcaatccct tgcctaattgt ggaaggacga 180  
attcttgcaa acgttatcga gtattttaga tatcactcac tcttaaagac cattccgcac 240  
tctgaggagg atattgagcg ctgggatacg gaattccaa atgtagatca ttttattcct 300  
ttctcatttg aatctggctg caaactat 328

<210> 2538  
<211> 287  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E3

<400> 2538

cgcgtccact acaggcaatt tccatcttt tcgctcatc attcttacat ttcatgtat 60  
gtacaatagt ttttcattg tcaaaaaata ttgcacaatc cacccatcga accacgaaaa 120  
agaaagcctt tcgactctt ctttctacac ggttgcac aagaagaatt agatacatag 180

aatcatcgac aacggattgg atgctggttt agaggcgttc aaccatagtc cagcaaagg 240  
agcgtagatcgat catggcctaa cggccatgta ggagagcaga ggtttga 287

<210> 2539  
<211> 306  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-E5  
  
<400> 2539

acccacacgt cagaccacgc gtccgcgcag cgaatccatg ttgaaagagg gtacacgtat 60  
attgtcagat catcaagttt caggtgcttc aagatggaaa acctcaggtg ataacttcgg 120  
atgaagtatt cggaggaaag agagtagtat tgtgtgggtt acctggtgcc tttactccaa 180  
cctgctctag gcagcacctt ccaggcttg gacagaatgt tcatgaaatc aaatcgaaag 240  
gagtagatac agtcgcttgc tgagctgtca gcgacgcgtt tgtgttacat cagtggcag 300  
agtcac 306

<210> 2540  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-E8  
  
<400> 2540

gaccacacgt tcagccccacg cgtccgcaca cgcgtccggg aagcagaagt attcgttagca 60  
aagttggta gctggcgac agtcataaa ctgttctatc agacagtgaa atgctttcct 120  
aatcaagtgg gaaactacca attactgtt cagcacgagt gaggataact tgaacaaatc 180  
ctcatatgga atgtgacaca acgtatctca actaagaaac aatgtgaaat atatccaaca 240  
acgtcacttt ttactattga gacaaacttg atggcggagc acaaaaacaac cacaaaaacta 300  
ttgcgtctgc attctacatc ctcgcagttg agatagaaat tccaaaggcta tctggacagt 360  
ggccagttga agtcatctgt taaaagaaac cgtttctctg tcaaaccac agacgccgc 419

<210> 2541  
<211> 286

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E9

<400> 2541

ttcccgaga aaattcgatg ctccgacaag ccttggatcg tttcggtcg atcatgagtt 60  
tatctggtgc agtgacaatg acgagtgtct gtgatccaga gtctcaagaa tattcatgg 120  
cgggattgca acacatgata aagcggcggc agatgttaagg tgaggatatt atcactccga 180  
aaaggcaaga tgagttagtc actgaggtgt gatgagtccg aaacaaaagt tcgagagcag 240  
tgttgcgaca aatacatcta cttccatcat acgctgtgtt cttttt 286

<210> 2542  
<211> 62  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F12

<400> 2542

acgcgtcagc ggaagcgtgg gcggacgcgt gggaaaaaaaa caaaaatcac gatgaccgtt 60  
ac 62

<210> 2543  
<211> 342  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F6

<400> 2543

agcggcattc gacgacgcct tcgagctgga gcagcgttga gtaattctg aaacacaaat 60  
atgcgtgcc a gttggaaaaa gaagagaaca cgacggttga agcgcaagag aagaaagatg 120  
agacagcgtt ccaagtaacg gaagaatcct cggacgtctg agttgaatag agttcctaaa 180  
acgtggaaaa actctatttgc caactctggc gcagtgatta tatcctgctt cggaaaggttg 240  
gaagtgtttc cgaggattgt tcgcaagtta tgataaaagg ttcttggtt tttgttttc 300  
aacttgtaaa tgccacttgt cagtcattttt attcgagtaa ag 342

<210> 2544  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-F7  
  
<400> 2544

agcccacgcg tccgcgctca atatacttct tactacggcg aatcatcctc cagctattat 60  
taccgagcag ctgctcctca gagatggtat gaggaacaat gcacccata ctgctgggtt 120  
ccagtacaga cctatgaaac ttatcaatgt tctcaagaga agaagaagga gtacagctat 180  
ccttgtcaaa cttatgagca ggtttcaact acttaccagt gtggtcagta cgagtcccaa 240  
caagtttact accaatgcca aaagtataag gaggttactc agcaagaatg ccagtacgtc 300  
caagagtcgt attgtgtcga gtagaagaa tgtcagcaag ttacccagga agtttctcct 360  
tcaaaaaattg tctactacgg tg 382

<210> 2545  
<211> 313  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-F8  
  
<400> 2545

agaggtttag cagttgacca agctattca agtgaggaag atacagtcgt ggtcatacac 60  
tttggtcaag acgttcatcc gacatgtatg ttgatggact aaacacttta cagcgcagca 120  
caaatgataa cctttttgc tgcctctat tcggtcgata tacggaaat atctgacttt 180  
aactctatgt acgaatttta tgattttgt actgttatgt tcgtcattcg gaatcaacat 240  
attatggtag acttgggtac cggatttaag aagttgatca actgggtat gactgacttt 300  
caggatctta ttg 313

<210> 2546  
<211> 81  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-F9  
  
<400> 2546

cgaaatatga atagccagat gcgatccatc acacgtaaaa tttatggctt gcagttaat 60  
gtagtgtact gaccttttc c 81

<210> 2547  
<211> 332  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G10

<400> 2547

acgcgtcagc ggaagcgtgg gcggacgctt ggggaaataa agaaactgca caaaaaaccc 60  
cgtactttaa ccgtaaaat gaccaggcat tacaaagggtt accagcaaaa ctccggcagc 120  
aaattgagcc atcggaggaa gtactcgccc aacaaagaaa aggcgtggca gaaatctac 180  
aaaaacacgg tgtccagcct aatcaaagtt tgattgaaga tattgtccgt ttctttcatt 240  
aatccctccg tgggtatgt ttagctgcgg ttcaactaga gttttgttg ggaacacggtt 300  
ggatccagta aagaacaaaa gaacttcttt gt 332

<210> 2548  
<211> 250  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G12

<400> 2548

cgcctacgcc ttcgagttgt tcctggatgg atagtccttt caattgttaa tacaaacatt 60  
tggtttgtgc ttaattgtcc ttgtatctca aattttatTT tttctcaact agacaactgt 120  
tataaatggg gggccgcgc cccaaggttc tcagcttacg tactcattgt atgcaacgtc 180  
atagcttcac aattgtgtgt caccttatcg tcacaaggttc tttatgagcc gatcagttt 240  
aaaatctcat 250

<210> 2549  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G2

<400> 2549

acgcgtcagc ccaagcgtcc gaaaaatgtt cgtgtttac tccgtacctg caagaaaactt 60  
accggcttg gcacgtaact tttccaatgt ctgtctctcg aggagtggtc tgagaggggg 120  
atgttacga aatgtgaaag tttcaacca gaaacgacct gcaagggtgt tatctacgaa 180  
aatgagagga ggcgaccatg aaaggagaga acttagtcgt cctatgcgt cgcttgattc 240  
cgcttcgac gaacttttag ctttgcgca ggatccctgg tccatgtttc gctctccatg 300  
gagtctgtct cccagaagta tggcagtaga cacgtggatg cctcgtgtt acttggtgga 360  
gaaggaagat ggctttatg catacgtgga actaccagga c 401

<210> 2550  
<211> 323  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G3

<400> 2550

cacgcgtcca cattatctgc gttgttttgtt gatttcttcg tgggttgcg tctcaagatg 60  
tccttttga aacgtataca gtcgactctg cttccaaca gagactcagt aacaaagaca 120  
gagtaaggcc aattacgaca tatagcacgt tcgagttac cgctgggacc ctgaaaaggg 180  
agaagaacctt gaattggta cctactcgat tcctctcaa gaatgcggtc ctatgggttt 240  
ggatgcctta ttcaaaatat agaatgaact ggagattact tttgtatgta gaacgtcctg 300  
ccgagacgga atttgtggaa gtt 323

<210> 2551  
<211> 101  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G6

<400> 2551

acccacacgt cagcggacgc gtgggatgtt actgttgcat tatacgagag agaacagtgt 60  
aagggtatacgta gaagtcaact tactggaaacg agaatggta t 101

<210> 2552  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H1

<400> 2552

cacgcgttca cccaaagcgctc cgacaaaagtgc tcgtttacaa aagaaaagtat cacatattcc 60  
ctcggtattgt gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc 120  
ctctgctatt ccagaaggtg aacagcctga cctccataaca aagtgggagc agtgtttaca 180  
agagaaaaggg tcaccaggt gccaacagtgc tcaaggttca ggacaaatac catgtcctgc 240  
atgtgaagga aagggttatt tcgtgtatgga agttttcaat gttacctcta gtaaccagtgc 300  
tcaaggttgc cgtggacacc gtaaaaactcc ttgcccact tgtaaagaat acatttatcg 360  
ggcagtaaaaa gatttatgat ataaagtata gctcaatctt taaaaatgga aat 413

<210> 2553  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H10

<400> 2553

catcaggtcc aaatgtcgcg ctcttcggta caaggtaaaa aggaagaggg agttgccaat 60  
gggacaaggg ttggcacagc ctttggggac ggactttgc ctcaaagtca ctctgttagac 120  
ttgtcgcttc agttggcac cgcagcggaa agtgaatttg tcgtcgacaa tgcacacgat 180  
actgagaacc atcaagtggg cgatagcacc attgaactga attccaatac cgaagtgggt 240  
cacgaccaag tagaagcgac tcattcgaca ggtggaggcg cagcacttcg agataatgtg 300  
ctggaaatgt cgatggcct cacagttcct tttgcactag cagctggaat ggctgggcc 360  
ttttcaagtt ccaaggatat tgtattggca gtattggcag 400

<210> 2554  
<211> 187  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H11

<400> 2554

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gtctcgtag cttggcagca tattctgtca aatggtctcg tgcattcaca ttctggccga 120  
gtgtgagtag aacagacat gcttactgtg ataagatctt ggtttgtacc tggtccccta 180  
tggaaag 187

<210> 2555

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H12

<400> 2555

agcccacgctg tccgcgaaat ggtcactcac gcaaggcaaa cctaagacgg ccccccggacg 60  
aaagaaaaccc aaggggaaaaa ccgtgtgaaa aacaaaatgt tacaacaggt ttttcaagag 120  
ctcgtacaca caataccgag aaaggtgttc ccacatgtgc atcacaaacc cccgaaattt 180  
ctttgacatc aggtgaacaa acgtgttttg caaagtgttag ggatcgctat ttagatgcaa 240  
gggaactcgt tccaaagact ttaatagaga gaatttcacg taactcaaacc aattgtgtgt 300  
gagatccgag gatttttg 318

<210> 2556

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H2

<400> 2556

attgaaaatc atggtagaca ccaagcttaa tgacggtgct agtgctgctc tttggacttg 60  
ccgcctagtt ctctatacaa ttgtgttagc attttcagca acaataattt gacctgatgg 120  
aacgaaagca gataacatat ggaacgtatgc cctatattat catggaaaag tggtaactt 180  
tttgtcatat tcagcgtcat cagttttga aagtggcgac catggcgcat gtcaacatgt 240  
gatggcattt gcttctatca acttgattta agtggctat cgttgggttgg acacctttgt 300  
cgacgcattt tatccaattt ttacagagtt ctggttgtg gagcttgta tcatgatatt 360

ccttact

367

<210> 2557  
<211> 210  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-051-Q1-E2-H6  
  
<400> 2557  
  
aactgaatat caggatacat gcatggagta catgaggaac gagagatcat cgtagtaaga 60  
ataatacAAC gagtaatgtg aattggatca cgaaagtatt tgaagaacac agtgtaaAGC 120  
gcgtAACTTT tgcatgatgt cccagCCAGT gaaAGACGAA gCAAAGAGAG agaaaaaACAA 180  
gtAGCCAGGT aAGACCCGAA GCTAAGTGTAT 210  
  
<210> 2558  
<211> 433  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-051-Q1-E2-H8  
  
<400> 2558  
  
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CGGGCGCTGG TGGTGGTTT GGGCTATTGT GTCCCTCACT ACGAAGTTG GTTTCTGTT 120  
gtggTGAAGA CTTCGTTAG CAACTTGTGT GCAAAAAATG GTCAACTTGT TGTATACTGA 180  
tgagggacga AACCTGTAA AGGGCTACCA ACTCATTTA TATGTTGCTA TGTTGGCTT 240  
CTCCGCCACT ATTTGGGGC TTATGGGAA TCCCATGTTT AATCTCTATC TAATTGCCAA 300  
atgaatatag acatCCGGAT CCTANCAAA CCTTTGTAC CCATTGACAA AGTTGAAGAA 360  
CGTCACTTT CAACAAGTCC TCTCTCCTTC TGTGCCTGGG GTGTCACAGG AGATCGTACG 420  
cgtggcatgc aat 433  
  
<210> 2559  
<211> 84  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H9

<400> 2559

acgcgtcaga aaaaaaaaaaa aaattcaaaa aagaaaaaga aaaaaggaaa cagaaggcagg 60  
acgctcaagg acgatggcac aaaa 84

<210> 2560

<211> 373

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A10

<400> 2560

cccacgcgtc cgccccacgcg tccgatcgtc ttccacgcgg aagtaatatg atcgatcgaa 60  
cagcattgcg caatgttgg aatgcagtatg taacaaccgc ggatgatatt ggacatcgct 120  
tggtcgtaga gatccaacta aaggaatcca gcaaataataa tagtcacatg aaggaaggag 180  
aacgaccaaa tgcggttaca gatatcattt ctacggaccc taaaatggat aggaaagtat 240  
ctcagtggtt gtcggaaagga caaaaggcat tcttagtata agatgagttt acgggtgaac 300  
gtcgaggaat attcttaagc tcaaccaaat taaaatgtca gaaacaagcc agtcaggaac 360  
gaaatagcaa tca 373

<210> 2561

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A12

<400> 2561

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tactgtaaa ggtcaagtat gggcagagtc tcctgtatgaa gaaaccaagc agtgtttgca 120  
atctttacgt tccaaagtac aatcgatgga cttgactcca aaagagttgg aatgggtgtga 180  
cgacgcttgt ctcttgagat atttgcgcgc tagaaataat catgtggaca aggctttgga 240  
gttgataaga agaacgttac agtggcgaaa ggaatttggaa gttgaagaaa tggatgtacaa 300  
cgtacctgct ccagtgaagg aagaagggtgc tagtcaaaag ctgtatgtgg gaagaaagga 360

caaatatggc cgtcctatca tttacatgaa ac

392

<210> 2562

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A3

<400> 2562

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gccttttattc gaaagtccaa caaagcaatt tgacttgtcc tcactacgaa agactttctt 120

ttgtatttgtt ccgggttggtt taagaagcgg cttagggggga gggttggag ttggctgtgg 180

gctgggcttt ggtcggtgggt ttgctttgag ggggctgtgg agtcaacgtg tcgggaggac 240

cggtgttatt cctacgcagt tcttgatgg tttgcctttt ggacattacg tttctgggtt 300

tttgcagaac tttagctcgaa aatttcctgg aagttcaaca ggtattggct gtgggtttgg 360

tttgggctat ggcgttggaa ttggcttac 389

<210> 2563

<211> 395

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A4

<400> 2563

agaagcatcc aaagcagttc ttacaagact tgaatcttat ctgtaaaaat gctttcatt 60

ataatgagaa gaagtcggaa gtttatgagc ttgcacagga gttaaaaaaa cgagtcgaga 120

acttgcgttgc gccagtttttggagatgggt ctgctattga acaagcaatg actgaggata 180

gtgaaaaaggtaaattatggg ggcgggcgtt cagaaacacg ggaaagtggaa gttatccccg 240

caccaagtcg taggactaga aagaagacca acactagtaa ccgcgattcg aaatcgtcg 300

acaacgtgaa ttcaagtaaac gttgaagttc acgagagcaa gtcaccaaat gctgaagatg 360

ccaagggtgt caatatgtcg acaactgaaa atgat 395

<210> 2564

<211> 199

<212> DNA

<213> Cyanidium caldarium  
 <223> Clone ID: LIB190-052-Q1-E1-A5  
 <400> 2564

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gaagagaaaa attttagtc ttgcaggca gcattcctcc aacaagggtg gaataagagg 120
caacatgtgg gacagaccac aggagatact gcctgatgat aaaccaatat tttatggaaa 180
aaaaagaaaa agagggggg 199
  
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<210> 2565  
 <211> 408  
 <212> DNA  
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A6  
 <400> 2565

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atgaagctg ctgcttcttt atctgaacca tcagtagcca attcgcttcg tcatcgttt 60
cagagctac aacatttgca tgacgatgga aagttacttg gtgatgacta ttagttgaag 120
gtgcgcac tttgagagg cttctctgtt tctagtccta tgcaaaaagt tcatttcattt 180
tttcttgcgta cggaaagcgt gctttccctt gtgtcgtgcc ttgtccaaat tggatataa 240
acagccatt ttatcttcag gtcctcattt cttggttgaa catgtgaaac gcactttagg 300
atggtaagt tattttgtc tcgagcattt gactttattt aggattttgc atatggaaat 360
cattcgaaa ccgatgcgt gggcaatttc actggggaaa taagtcag 408
  
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<210> 2566  
 <211> 423  
 <212> DNA  
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A7  
 <400> 2566

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gaaaaagaa gagaaaagcc gtactgaaga ccgacacagg tactcgagga gaaaggagac 60
aaatthaag gtgagagaat ggacgataac gaactaggca aaaggagatg gtatccggcgg 120
gaacatata gaaagaggcg gcaggggagt gtttagcaaa aacacagcac tctgcagaaa 180
  
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agagaaaatg tagagtgggg gagtgtgcgg cctgccagg agtagagaag aaatcgatga 240  
aagtgaaagc gagtaaaaga tgaggtata tag agaatggcgg tcctaacagt aaggatccaa 300  
aggttagcgaa gttaatagac gtttggaaagg cgtccagttt gaaaggagaa acgagtgtag 360  
caactgtctag tcgtccaact cagcgaaaca gcaataactg tgaaaatgca gttaacttagc 420  
agt 423

<210> 2567  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A8  
<400> 2567

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actccgttta cagggccacc ttctacactt cacactggta cagtaagct ggataatgag 120  
gaaatagagc gttattttatc tcaactgata acagagtctt gcaagccccct tgcggaaagag 180  
gatgtcaaaa gactgtgtga taaagcgcgg gagcgttgta ttgaagagtc caacgttcaa 240  
cctgttagtt gtccagtaac tgggtgggt gatattcatg gacagttca cgacttgtta 300  
gaactcttta aaatagggtgg caactgtccg gaaaccaact atctttctt gggggactat 360  
gtagatagag gatattactc tgtggaaagca gtaactgccc ttgtttgttt gaaaa 415

<210> 2568  
<211> 346  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B10  
<400> 2568

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tggcaagctt tgcctcatt ctaagtataa tctgtgccat tcatgcagta acagccgatg 120  
aaataacaag ttgcagaga ggataccaaa cagttgcacc aactcagacg cagcaatgtc 180  
aaaagatttgc tgcaccgc acacaaactc aagttcaaag ttgtatttat actcagacac 240  
aggctccgtt caggtcccaa tgtgtcaaag cattgccaac tacctgctat aaatacttaa 300

caaaatataa gcaggtgtgc tgtgagcagg aatacgagca acagaa

346

<210> 2569  
<211> 254  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B11

<400> 2569

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gaagttgttag attcctctcc tagtcctatc gttgcaatag caatcgtcaa ctccctcgaat 120  
cggcctcttt tcactcgaac atatgaacat cctgacttgg tgctgcctag cgctagaaca 180  
ggagaaaacga gagaacaaca gctacactat ttactttcc ggtctctaga ctttattcct 240  
ggtgaaggaa aaag 254

<210> 2570  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-B12

<400> 2570

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gaaacagtta ttgtcgccgc gtttttgtt tttactacaa acattataat ggaattgggg 120  
caagaaaact ctagagttcc taccctcccc ccacaactgc acctaatttt tgagcgaccc 180  
ggagctctca atactggtgg tagagcagcg atggctgcac tggctctgt tttgtctgga 240  
aaaaaccttg tgataacaacc caactggatg gacaacgagg ggtgtaacaa atattgtatg 300  
gataaacggg attatatggg atgctgtagt ttggtaacaa tacctgaaga gtggccgttg 360  
ttggagtgga acgcggaaaa tattccncga ctgaat 396

<210> 2571  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B2

<400> 2571

agcactctat tatattggct atcaaatcg agtatgcct ttggcttggg ccatcaacgg 60  
agaaaattat gaattgcacg tgcgcaattg gggaatgtcg tggggtgtcag ccattcttt 120  
gggtgcggca ttctcagtga gcgagggatt taccagacaa gtacgagcat ttacgaaaac 180  
tggagtattt ggattgttag gaggagttag cctcatttc tgggtatcc ttatcatttt 240  
aatgcctgag acaaatggaa gaacgctaga agatattcga aatatattcg atgaacgttt 300  
aattggattt gcaaaaataca actggagtc aaccaaaaaca tggat . . . 345

<210> 2572

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: ITB180\_0E2\_c1\_s1\_p2

<400> 2572

gcgaatggga gaattgagca tcttcgtcg tacttttagct gaaaatatat cgatgcgatc 60  
tgttgaatgc aacagcattt caaatatgga acttgaggta aagaatgttc ctgcattttg 120  
cagaacagct ggcgattcag ttgagaaggc tgacttgtcc aatgcttggaa aactattcta 180  
tgagcattat ttgtcaggag acgcgattta tttgcatgaa ggggaaaact cttatgggcc 240  
tggggttctt attcgtatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300  
accatcctcg gaacaaatat caaacccttt acagaaacaa aagacctact tgataggtat 360  
ttcattgaaa tgtttgatg attcatgttg cactgtaaac catqataaa tt 412

<210> 2573

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB180-053\_01\_E1\_B4

<400>

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tgttgtataa gctttctact agtgtggtaa ctattgcata catggaacgt ctcccttgtt 120
```

tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gctttggtat 180  
ttatgttcat gtttcgacgt tcgtgttggg agcgtgatga gttgtattac aaggccaaat 240  
ctgtttaaag tcaatgttgc tatttgtatt tgaaaatctt tttttttttt tgaaatatgc 300  
tggtaactagg ttgttggttgt tgtatcgagt gacatgtatt tcgtcttgg acaacacaag 360  
acatgtgtnt ttgagtagta taatanatat gcaagacggg tcgagacaca cacat 415

<210> 2574

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B6

<400> 2574

caagcgtaga gcagaagaac tgggtgtaaa ggtcgagtag tagagtaagt gtaaaaggaa 60  
aaggaaaagga gagaaaagagg aaaggatcg aatgcagaga tctcgagaga aaggcaggaa 120  
agaaaagaaaa gtaagagaga gggatgaggc gagaaagcat aggaagtgaa acggattagg 180  
aacccgtgtta agcggaggcg ggaggagaaa gaatgaggag gaaaaaacgg agtcattcca 240  
ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc gaaaaaaggaa 300  
gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaagtgttg 360  
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaagc caagtga 417

<210> 2575

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-052-Q1-E1-B7

<400> 2575

cccacgcgtc cgtttggc attgtttga aaaagagagg cccatcctca ccactactac 60  
gagagaagaa accatgacta cgcatgttgc aagaggagaa gaaggcggtt cacagcagga 120  
agaagaaaaat attccggagg acggcgaga cttggccacc tatgttcaaa acttgttgc 180  
tcagatgcag atgggtggtg gaggcgatgg cagacgcgag gtaggcaga attgacgaga 240  
tggtagtcg tatacacgaa ctggagaaga gcatcgatga gttgatggaa cagactggag 300

taaaggaaagg cgatggaaaca gagtctggtg aggttactac gacaagtcgt ggggagtgaa 360  
tgcttcggtt gtatgtacgtt ggatatcntc cagagtagct cgtacta 407

<210> 2576  
<211> 417  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B8

<400> 2576

cccacgcgtc cggccacgca tccgcccacg cgtccggag gtgattcca ccaagtcaca 60  
aagaatcgta aaagagaaaa tgacgatagg tttgtacat ccacttgaa ctatgttca 120  
atgttaacaaa cactacaaga ctgctacttg ttcttcccag ttttattcca agtcttcata 180  
gtttctaggg agaaaccagg cgggttgcaa gtcgtggct cttgcctatg gaagcaagg 240  
ggatcagaac aagtacactt acagtcatcc tagttccgtaa aacaaggaa gaggaccaac 300  
tatggttgct tcgaaaacag agttggaaca acaagtaaga tccagactag tcaagttgtt 360  
tgagcagaca cttgcgtatgc ccatcatggt gagacttgct tggcacgacg ctggAAC 417

<210> 2577  
<211> 366  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C1

<400> 2577

cggctcgagc cacgcgttagg cggacgcgtg ggttggaggag gaagaactgt ggaacttgTC 60  
gttgtctggc agcgccactg ttgttgcga gacactcgTC gctccaatag atacggcaaa 120  
gattttgtgg cagggtgagg cagttactcc ttgcctgc gggcggcgc ggtagaactg 180  
gtttggaggc tcttaaaagt aagcggacta ttgagagggg gtgagaggag tgacgttgaa 240  
ggaggggttc caatagaaca gggattctgg gcagattgga gagaaatgg agtgaatcta 300  
ctgagaacga taccagggtc tggctcaag ttgttcatct acgaatactt taaagattaa 360  
ttcttc 366

<210> 2578  
<211> 179  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C12

<400> 2578

cggacgcgtg ggcgtattcg cgcaatgaga ggcaacgtga ctatgaagac agacccttt 60  
tgaagtttgtt gaaaccactt cgtgaccgtc ctatcagttt tattttccca aatgatgaaa 120  
atagcaggat tcctcattag ttggatagta caataaatag ttgttgagct ttatgttgg 179

<210> 2579  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-C4

<400> 2579

agataatggc agtaggcaa tgtttgctta ttttcataatg tctttcagct ctgttaggtt 60  
caactttggc tgcttctggc gcaacgtcta ttttagtcgtt gcttcagact aaaagagacg 120  
agacttttac agtccaaagc agagagctgg ctaatctaac agacgtataac aacagcagtg 180  
tattggactt taccttccgt gcgtgcaatg acactgcttg ggaagaatcc agagccaatg 240  
tcactggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300  
gcttgatagc agcaaggaca gtgaataaaa cggtggagtt tagtaagctc tctagtggtt 360  
cgaaggaggt tgtttcgctg gcaggtttac cgcttaattt cacganaaat tctac 415

<210> 2580  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-C6

<400> 2580

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aatagagcac tatcacaacc aggagatgta tttctgtgct tttgcaacat ccagttgttg 120

gtgaatgcag aaagagcgag tatgaggaaa tattacttgt ccagaaagta tcgaatttgt 180  
tcgtctatta gctggacata gagcggttt gttcgatgaa gatttggatg actttcgttt 240  
ggaagctatc ttgggagcac tattgtgtac ttgttattgt gagtggaaagc gttttgaagg 300  
agaattgggg gtacaagaat ggaatgaatt ggagaagata tcttccttag atacttggaa 360  
gcttgctt ggtacaagac anagagtgga taatatgtta cagcgagtac acaa 414

<210> 2581

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C8

<400> 2581

accctttgt ct当地cggtag agagtgacaa ggggttgcgc taccaagacg gcatgtctat 60  
gctgtcgggc gacacaaaac gagaataacg agggcaaaag acggaatgcc attcgataga 120  
gagtaaacat gcgtgacact gggaatgcaa caaccgctgg ttcgtctttt gcatagccag 180  
ccggtcgtgt cggtgtctcg ggcgagttag ctccgggtgt acaaggctac caaggcctct 240  
tgcaatcggtt caggctttat gtcgattgtat agttcaagtgt tattttggaa aaagagtaat 300  
acaaggacga ct当地ggcttgc atcttcgtt ttcccttctt ggttgctagt gctgtaaatgt 360  
ctcaggaaaaa cctacagtga aaccgaaaca atcgagcgag gttttgctat gacag 415

<210> 2582

<211> 339

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C9

<400> 2582

cccacgcgtc cgtcttttc ttgttggctt ggtccgactt gcaaagagga tgatgaaacg 60  
agacaagatc aagtcttgggt atcttccca gtcttatcca gtggcggtagc aaaatagaat 120  
caccgaatgt ct当地gtttat tacaaaatca acccaacaat attccttgct atatccaaca 180  
atatgaaata cccgaagttg ctgggttgcg tgcttgata tggaaactgtt gcattgaaaa 240  
attcttgcg gtcgattcta ctacctctt gcacgttgct tgttcatcgt attggaaatc 300

gatcgacaaa tatcagcaac atccaaccga cgacccact

339

<210> 2583  
<211> 430  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D10

<400> 2583

ccccacgcgtc cgagtctgct ctggttcgag ttttggagg aaggaacggtt gcaagtcaaa 60  
gcaacccatt ctcgatatgc tcttggaaaa ttccggcaggt ctgcataaaa atgtttccg 120  
tgactttct atgtggaaaa gaaaagaag gacattataat ctcaaagatg atctaccagt 180  
gatggattac aaattcatct tgatgagttt ggggtcaacg atccatatga aatgaagtct 240  
caattatgga aatgacttgc caggttaatt tcttagcatt catttggctt ccttatactg 300  
gaaaactccg atggaaagtt tgtggataaa ttcaagtaaaa agtataaacag cagaataactc 360  
taatggaaaa catttgcga aatttgcgtt ttgtggaaaa ataactggaa gtttcaaagg 420  
aaccgctgca 430

<210> 2584  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D11

<400> 2584

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gacttttacg tttttatcct tttcaatgtc tgcatgtggaa gtcttacaag taaatgttct 120  
aaataaccct ggtttcttgc gagaccggtt ttgtttgaa ataacttataatg aagtggagaga 180  
agcgttacaa caagatattt gttggaaagt aatttatgtt agttgtgcac aagacgagag 240  
tttggaccaa gttttggatg aagtacttct tccagcagat acgggtgggtc gttttcagtt 300  
tactttggag gtctcagcac ccaatccaga caaaataacctt agtgtatgact tattgggtat 360  
tacggcagta ttgatcactt gttcctacaa agatcaagaa ttca 404

<210> 2585  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D12

<400> 2585

cccacgcgtc cgaagtttct tggcttaggc agtctcgat ctgagcgtcg ccatgacaat 60  
gaaaatacac ttttggcgac agaattcacc tttcagtatt ctcagagcag gcaaaacacc 120  
cttttagta caatatccat gctgcagagt tcgaatgtaa taagaaaaat cgctcatttt 180  
ggcgccgtat cgaggcttgc catacgatt tcctcatcg tcgaatggaa catttcgagt 240  
tattttacta tggtgagaag aaggtcgatc cagtggcgac atttgcgttc aaaataattt 300  
tttgcgagaa aggaaaataa cgtgagagta taagtacggc caagaagagg catttcaaat 360  
gaaaactaag atgaaataat acgtttacta gttcgagtt ctgtcaggaa aaaatg 416

<210> 2586  
<211> 523  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D5

<400> 2586

gggggggggg gggggggggg gcgggggggg gggggggagg gggggggggg gtcgaagtct 60  
ggcgccggga tgggtaggac ttccggcgcc gacccacgat tacgaagtgg gaataatgc 120  
atggatgagt ataggatcat tgggagtata tggagtaata ataggaggat ggggaagcag 180  
ttcgcagttac agcataatgg gaggttgagg aggtggagcg gagatggat cgtatgaggg 240  
aggggggtgga gagatctcta gagaaaggca agaaagaaaa gaaaggaaga cacgcggggg 300  
ggcgccggag aaatcatatg ggagtgaaac ggattacgaa cccgtgttgt cgagggcagta 360  
gaagaaagaa ttagtaagaa aaaaggagt cattccacca ggggagtaaa ggcgcaagaa 420  
agaaacccaa agcaattgac gggaatcgga aaaacgggtg gatcacgtaa attaatccga 480  
tttacaccga gaaccttacc tctccaagaa ggtgtgcac ggc 523

<210> 2587  
<211> 416

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-D6  
  
<400> 2587

gtactcctcg aaagctatat aagttagcgta tgcaggaaag aataaggtaa aggaagagaa 60  
ggaagaagca gagagggact atgagcgaga aggtggatag tcgagaggga aaaagcgcag 120  
aagccaaat aaggtatcga ggtgaggaaa gaaggaaaag gagaagaaga gagggttaggc 180  
ttagaagcag cacgcgagag aggagggcgt taaagcatgg gaggaaagaa atccgaaaaa 240  
gaagagaag agttaagaaa gaggaccgaa tcaggtaag aggttagagga gcaagaagag 300  
aagagagaat gctgggtgga gtagcgaaac aagagaaggg aagtaaaagg taagaaagag 360  
gaaaggttta cgagagaagg aagttagaaag aagagagtgt aaggcggcgt cataat 416

<210> 2588  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-D8  
  
<400> 2588

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tgtgctcaaa tgaaggctat gtttgactct cttggacatt tgtggcaaag cggtcagctg 120  
gttggaaac ttgcgggtat cttgtatcc accggtaactc aaggaggtgg acaagaaacg 180  
actgcttaa ctgccagtag gcagttggca cacttggaa ggatttcgt tccgacaggt 240  
tggatatata tggaaataac tttcatgtt ttgtgaatat tggataggat attcttatgg 300  
cagtgatatg tttggttaa aggagcctca gggaggtct gcttatggc caggtacctt 360  
tgcangtgca gatggaaagtc gacaaccttc cgaatacggg ttggcttagag caaaacatca 420  
a 421

<210> 2589  
<211> 362  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D9  
<400> 2589

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ttgaaaagtt tgcgttta atggaaaagg aaaaggaaga acgggagaaa tggcgatgg 120  
aagcatggaa aacgcaatta attgtcgatg ctatttatca atcccaaaaa accaagcaag 180  
tagttgtcat gaaatattag tttcttgc agtatttcta aagattcca tgttgtatc 240  
gtatatgatt actgagatgt aaacgaggag gaagtcagtg tttgttgaag aaagctttgg 300  
ctatacaact gggAACGATG acttgc当地 taaatgtcac acaaatgtga cgttttgt 360  
cg 362

<210> 2590  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E11  
<400> 2590

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tagtgataat gaagttttg aagtagacac aagcattgtt tccctttctg aaacaataaa 120  
aaacgtcttg gaagacacgg aggatacaga gacattccc ttgcctaatg tggaaggacg 180  
aattcttgca aaggttatcg agtattgttag atatcactca ctcttaaaga ccattccgca 240  
gtctgaggag gatattgagc gctggatag ggaattccta aatgtagatc aaccaaccct 300  
ttttcatttgc attctggctg caaactatggatatcaag agttgttgg atttaacttg 360  
taaacgagta gcagatatga 380

<210> 2591  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E12  
<400> 2591

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cattacttgg aaaggatggc agatgttggt tttgatatta tttctgtgga ttggacggtg 120  
gatattggca aggcgagaga acgcattgggt tcttcttctg gtattcaagg caattttagat 180  
cccgctattt tgtagggac acctcaactc attgaagagc gcacgcgtga gattattcat 240  
aaagctggac ctcgtggtca tattatgaat ttgggacacg gcgtattacc caacacacca 300  
gaagaaaatg tagccaaatt ct当地aaacg gtgcaacaat ttcgttggca agaataaaatt 360  
tactcttata gctgccg  
377

<210> 2592  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E2  
<400> 2592

cccacgcgtc cgttgttttt cgtaaaaagtt ttcattcagc atggctccta aaggtgctaa 60  
aagtgtaccc gttgcaggtta aaaagccgtt ggcaaaaagtt gaaaggaaga cgtcgagaag 120  
aagagatcgg agacgtattc cagggagaga tacaaggttc tgaagcaagt tc当地ctgac 180  
accggaatat cc当地aaagggt tatgagcggc atgaattcct tggggagtga tattttttag 240  
agaattgcgt cagaagctag caaattagct gcttattcga aaagcaagac gcttacttcg 300  
agagaggtac aaactgccgt tc当地cttttgc ttaccaggag aacttgcaaa acacgctgta 360  
tc当地aaagta caaaaaggcgt aacaaaatac acttcttctt aacggtacaa caagtgctca 420  
aa  
422

<210> 2593  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E3  
<400> 2593

ccatttccct ctgtcgtgga taggcgatga cttggtaag attgttgctt acgaggcaac 60  
tggcaggaa atgtggaaat ataacactag ttggtagtct tccatccatt cgatcggtct 120  
ctagtgttct tc当地tcatgt gactagtcct tc当地aaagg agatccttct 180

cggctgttcc ttcggaggaa agggcaaata aacaaggggg agaagcta at gttacacaag 240  
atacttccaa aagtacttct ccaactgtt tgcatggatac ttatggctt gaattaagaa 300  
cagggcgagc ggacaggatg ctttttcgt ttgagcaagc cacggaaatg gaacgagcag 360  
aatttgaaga tcccgatatac tatcgtaatc ctgaaaatgt tgtcaacagc a 411

<210> 2594  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E5  
<400> 2594

cacacattca tgttgcctt tcagtagc ttatgttcca gttctattta tctaaggaga 60  
gttgcatttga agagtatcaa ttatcatggt taccctcgag tgtgcgtgcc taaggatgt 120  
ggtaatcttt ccaaggggtt aggtcaagtg ctgccatag tagcagtgc aaggaaggtg 180  
tcaagaatat cggggggcg gagcaacgaa aaaggtggcg aaatatatca ctcagttgaa 240  
gaaaatgtaa agaaggagc agaaaaatgtt tcagaaaagg ttgatgaatt caaagacgct 300  
gtgcaggata gaatggaaaa tgcagatact tccaaagcaa aagacgtgc aagagatgtt 360  
gtagataagg tcaaagatgc tggacaatcc gttaaggacg gtgtctctga tgc 413

<210> 2595  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E6  
<400> 2595

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taggtaaagc gaacgggtga gttaaagaggt gggaaagagt ggaagagcat gaaagcacag 120  
gagaatgtaa gaaatggtga gagtgaaac cataaaggaa gtaaaagcgg gaatctgaga 180  
ggaggaaagc cacattggc cggaggaaaa ggtccaaacg ggagaagtca gcagtgggaa 240  
aaattggcata atgtacaggg aagtatgacc cagtaatgag gagtggagta aacagaaaag 300  
gaagtaaaag gaggaatgtt acggaagttt tggcaaaaac acgtgccagc agcagcggta 360

aaacgtgtgt agcaggcgta gagcagaaga actgggtgta aaggtcgagt

410

<210> 2596

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E8

<400> 2596

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ggtaagact ttgttagca acttgtgtgt gaaaaatggt caacttggtg gagacggatg 120

agggacgaaa cctgttggcg ggccggcaac tcattttata tggtgctatg ttggcttct 180

ccgccactat tgggggggg aggggaatc ccatgggggg gctctatcta attgccaatg 240

aatatagaca cccggatcct agcgaacctt ttgtacccat tgacaaatgt aagaacgtca 300

ctttctacaa gtctcttcc ttctgtgcct ggggtgtcac aggagatcgt acgcgtggca 360

tgcattccac ttgccgatgg gtca 384

<210> 2597

<211> 379

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E9

<400> 2597

gcaagttcc agatacaaag aagaaaattc tatgtccga gaagccttgg atcgtttcg 60

tgcagcagg agtttatgtg gtgcggagac aaggacgagt gtatgttac cagagtctga 120

agaagattca tcgtcaaaag tgcaagagag gagaagcgg cgccggagga aaggggagga 180

tattagcagt ccgaagaggc aagagagtga gtcacggcgg agtgaggagt ccgaaagaga 240

ggaacgagag caatgtaacg aagaagaaaa ttatttctat cacaaacttgcattcttta 300

tttgaagtct aatcgccaga ataatgtgac aacaaatcct gcagagtttgcattcttgc 360

caaagatatg acagagcct 379

<210> 2598

<211> 388

<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E1-F10  
<400> 2598

cggtggattt ccaggcttcg atggagagtc acccataacg tttacgata tttgttg 60  
aatccgagag acgatagatt tgctttcc tcggatcaa gtcaagtca tagcagagcc 120  
tggcggttat ttgttcat ccgccttac ttggctacg aggattattg cccgtcggtt 180  
tcgaacccaa tcacaggaag gagacggcag ttgtctgaag gcaggcttt gtttgcaga 240  
agatatttct cggtcgagtc ttgttgctga ttactatgtt gatgtatggt tttatggttc 300  
gtttcgagat gtgatatctt tgggtgttgtt attctatccc aaaacgttta gcagctctga 360  
cgacactgct attgactatg cacgtttt 388

<210> 2599  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E1-F11  
<400> 2599

cccacgcgtc cggaacaagt tttgagcaaa aatcaaaatt tcactgtatg ctaattat 60  
taagtaccaa gttacatac aatgttgctg cggagttgaa tcaaacaagt cggtgctaca 120  
ctcctggaaa caagctccct caaggcattt atgttccgga aagatgtgaa ttggtcattc 180  
tttgtgaaga agatgtgaa aactttattt gcaaaagtat attgtcaggt ttaagagagg 240  
cctttacgtt gacagataat ccaagttga aggttatttga gaatccgcgtc ctgaaagaca 300  
tgggtgtgtc tttggaccaa atgagttctga aaagggtgtc gtgagttgga atttattt 360  
agttgttattt ggatagttt atgatatttataaaagaat c 401

<210> 2600  
<211> 357  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E1-F12  
<400> 2600

cccacgcgtc cgggtcgagt agtagagtaa gtgtaaaagg gaaaggaaag gagagaaaaga 60  
ggaaaggat gaaatgcaga gatctctaga gaaaggcaag aaagaaaaga aaggaagaca 120  
cagtaaatga ggcgagaaag cataggaagt gaaacggatt aggaacccgt gtagtctatg 180  
cagtaaaaaga aagaatgagt aagaaaaaaag ggagtcattc caccagggga gtaaaggcgc 240  
aagaaagaaa cccaaagcaa ttgacggaa tcggaaaaag gggtgatca cgtaaattaa 300  
tccgatgtaa accgagaacc ttacctctcc aagaaggtgt tgcacggctg tcgaaag 357

<210> 2601  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F2

<400> 2601

agccccacgcg tccgcatttt tctttggag aaaacgacgt cgtcgactca ggggaccgaa 60  
gaagacttcg aaagtagcac ctccctcgtc agctctggtg aaaaaagaaa aaaagggaga 120  
ggggggaggg gggaaaaacc ctctttctg gggggaggg aagaactttg gtattggtgg 180  
agatgtacaa ccaaagagag atgtgactgc gggggcgggg gttatcgca gggggtgcgt 240  
cttcaaagac aacgaaaggt tctcatgtcg agactcaagg tgccacctgc gatccaccag 300  
tttacgcata ccttggataa aaacgtttcc aaacagctat tccgcttgg 350

<210> 2602  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F4

<400> 2602

gattactagt tctgcatttg agccttcgaa tatgtatggcc aaatgcgatc caagacacgg 60  
aaaatatatg gcttgctgtt taatgtaccc tggtgacgtc gttcccaagg acgtgaacgc 120  
agctgtggct tccatcaaga cgaagcgtgc gattcaattt gtagactgggt gtccaaacagg 180  
attcaagtgc ggtatcaact agcgggcgcg gtctgtgatt cctggagcgc ggaattggct 240  
aaagttcaac gtgcagtcgg catgatttcc aacagcactg ccatctctga agtcttgcc 300

agaattgatc acaagttga tcttatgtat gcaaagagag catttggta ttggtagtt 360  
ggagaaggta tggaagaacg tgaacttcc aaagcacgtc aggatcttc cgctctccat 420  
aaggat 426

<210> 2603  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F5  
<400> 2603

cggacgcgtg ggcggacgcg tggacaagc caggtagtg gatatgattc aaagtttgc 60  
tactagtttc tattcttttc aagattcgaa acaacttcca tcggaagtgt gaagtcgttt 120  
tgaaggcgtt gattgtgtgg tgttagccaac tggagtggca aggaaatgga gagcagcatg 180  
atcagctcg ggaggagggg gcgtcagttg tggagtgtc tactagaatc tcaaactcac 240  
tatgcacaaa ttagtggaaatgatttttgc ttattgatttgc acgtactacg 300  
gaatacgtga gtcactatgt tgggttgata agaaaactata ttcacttggg aggtcgccat 360  
tttggtaa cttatggaaa ttgggttgttgc tccttttat attcattgct tggt 414

<210> 2604  
<211> 317  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F8  
<400> 2604

ccccacgcgtc cggccacgcg tccggctaaa cgttgccccc gtcgtatgtc ctctagcgaa 60  
tatagtgatt ccctttgtca acaaagatac ttgtttgtt tggctgtga atgtgttcct 120  
gatcgtagt ctttatgcgg agcggagggtt ttgggtgaaag acgcgccagt cgccatgaga 180  
attcgtggca tttggagggg ggcgcggcgt gcaacggaaag gaggagggtc aagtttgaa 240  
caagtaaaag gttttggat tgggttagtt ggaagttaggc aaaggagaaaa ataaaagaaaa 300  
gcaacgtctt tttagct 317

<210> 2605

<211> 344  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-G10  
  
<400> 2605

ggtaaaaaag cgtttttt tttctctgg agcaaatgtc gtttcattg tgaatccaaa 60  
catttggtgg cctcttattt gtccttggtt ctccaaagat tttttttcg ccctagaaaa 120  
ctttaacgga tcatagttggaa ggctccagtt gaagaaaaga tactttgtgg tagacagcga 180  
tattgcctca gattgttagaa agtattgcac tggtttatac agagataacc acgtcttagt 240  
gacactgaat ttataccgtc cgctgtctga gagtcgttttgc ttccttagtat tgcattttc 300  
ttttgttttc ttgaaataaaa aatttggcgc caatttgtac tggc 344

<210> 2606  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-G2  
  
<400> 2606

cccacgcgtc cgccggacgcg tgggtgcagg caaagaagtgc acgcagtaga tcagagagta 60  
acacatgcaa gtaggtaaag cgaacgggtg agtaaagagg tgtgaaagag tggaagagca 120  
tgagggcgcga gaagaatgtaa agaagggggg agagtaaaaaa ccataaagga agtaaaagcga 180  
ggaatctgag aggaggaaag ccagagggggg ggggataaaaaa ggtccaggggg aggagaagtc 240  
agcagtgggg aaaattgggc aatgtacagg gaagtatgac ccagtaatga ggagtggagt 300  
aaacagaaaaa ggaagtaaaaaa ggagggaaatg aagggaaattt atggcaaaaaa cacgtgccag 360  
cagcagcggg taaacgtgtg tagcaagcgt aaagcagaag aactgggtgt aaaggtcgag 420  
t 421

<210> 2607  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-G3

<400> 2607

cggctcgtga gatgctactc cacaaggtaa agaacccttc gagagtggac tttgtccatg 60  
tcgatgttat ggaaaaatct gtactttcta geftttaaaa ggatgctgag gtggtttct 120  
tcggtgcttc agcttctgca gggtgagag tccctggtag ttctagaac accccgaaac 180  
aggtgtgacta ctggggggg atgcgggtcg cacaagcggc gggcaagct aaggtaaac 240  
gtctcatctt ggtaagctca gcaatggtga ctaaccgaag ttcattccct tatttggct 300  
tgaactctgc atttggacga attatgcatt ggaaaaatgca aggagaaatt ggagtcatca 360  
aagttcatga gaaaaatcca gaaatggctt atactattgt tcgcccagga cacctg 416

<210> 2608  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G7

<400> 2608

cccacgcgtc cgccccacgctc tccgggtcg tacgagggtt ggtcatttgc tgagctgaag 60  
agtcaatgaa caagcttcag ttgctatgctg taaccaaaca acctgtttca agagcatggc 120  
aaagagaaca gaaggggta gactccgaga agaaatcagt tgcagaagga actttggaa 180  
gcaggtggaa ggggagggag actgcacaag agagcgcgtc cttaatcgt gaagatgagc 240  
aggcagtaca aaggtagca gcgaaacttc ggcagcaaat tgagccatcg gaggaagtac 300  
tcgccccaca gagaaggc gtggcagaaa tcttacaaaa gcacgggtgc cagcctaatac 360  
aaagtttgc tgaagatatt gtccgtatct ttcattaatt cctccgtgtt tga 413

<210> 2609  
<211> 375  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G9

<400> 2609

cccacgcgtc cgccccacgctc tccggaaaag agaagagagc tagaaaggag gtaaaagaag 60  
agtaaaaagga ctagaagagg tacggaattc acgaggaagg agcgtgaagg aaggaggaat 120

cccaagtaat cgaggaagaa aaagcttcgg tgaaagcgtg aacggatttt gtacacactg 180  
cccgtaagt tcttggaaagt tgcttaggagt ggagtaaaca gaaaaggaaag taaaaggagg 240  
aatgaaggg aagttatggc aaaaacacgt gccagcagca gcggtaaaac gtgtgttagca 300  
agcgttagagc agaagaactg ggtgtaaagg tcgagtagta gagtaagtgt aaaaggaaaa 360  
ggaaaggaga gaaag 375

<210> 2610  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H1

<400> 2610

agacgatgat gtatttgctc ccaccaatga atacgtcatt ggaactgccat atatgttacg 60  
cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120  
gtttggaga tttccagatg agagttatga tggctatact agtaacgttc caggaaatcc 180  
gtggattcta tgtacttttag gaatggggca atattattt gaggttggag cagagtggtt 240  
gaaacatgag gagattgtca taggaaagtggc gagcaaagac ttttcagac atttgggg 300  
tatgcctcct ctttctcctc ctcaatcttc tatataaacg accattactg gaaaagcgt 360  
ttgttagttat gtttctgcgc tattagaaga aggagatcgc gtattgaatg ctat 414

<210> 2611  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H10

<400> 2611

tgattcttct tcttctgggtt cttctgggtt tgagagtgc gatagctttt attcgtcatc 60  
agatgaggat agctcgatg atgagtacta tagttatgtt gaagatattt ctgattatgtt 120  
ttcggaaagaa gaagttgttgc acttgggtttc agaagaagac acggattcag aagaagaagg 180  
ttccagtgac tcggatgacg tgtaaaagag tgtacagtgc agcaatggaa caaaagttgt 240  
ttcgcaacag tgtatagaca gaaatagata gatgtagaaa ggaaaacacg caactattat 300

tatctattct tttcaccaag gaacaaccgt ttgctcgcc ttgtggcgt atatatgtct 360  
ataga 365

<210> 2612  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E1-H11  
<400> 2612

tgccttagtt gccattactt tgggaccacg tggagcttc ctttctactc attccaatcc 60  
ttccgtcata gaaaagaata tcgcttgaaa tccttgaaa tcgccaggaa aggccgtctt 120  
tcgacccaat ttccaggcga aaggcactat caacgcagtt ggagcaggag acacattac 180  
agcaggtata ttagctatgc ttctaagaca agcacattct tcatacttcc tatctttgaa 240  
attgtggca gatgtggat tggctgctgc tatgcaaaga attgactctg gagtcgaacc 300  
aaaaacactg caaaaacttg ttatgcaact cgatgagatg cccctgtctt ctgttcagtc 360  
ccttgatca tttgtataa atcttccaac gcaac 395

<210> 2613  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-H12  
<400> 2613

ccccacgcgtc cgcgaaagtat tcaatcctcc aaagaaggct atgacggatg atatcacagg 60  
agagcctctt gtgaagcgaaat ctgtatgataa tccagaaaact ttaaagaaga gattagaagc 120  
atttcataaa agtacggatc ctgtgattcg ttattatgag aagaaaggta ttttatgtcg 180  
aatagatgct tctaaagata tcgatcaagt atctcaacaa gtggagcaag ctattgaaga 240  
acgacaaaag actgccaatg cagcctgaaa gttgtttgc aagtaaaaag ttttgttgc 300  
tttttgtcg tttaaaaaaa aannnnnnnan a 331

<210> 2614  
<211> 364

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-H2  
  
<400> 2614

ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtacg 60  
taaagcgaac gggtgagtaa agaggtgtga aagagtggag gaacatgaaa gcacagaaga 120  
atgtgggaga tggtagagt aaaaaccagg ggggaaagta aaagcgggaa tctgagagga 180  
ggaaagccac attggcactg agaaaggggc agcgggatag aagtcagggg gggggaaaat 240  
tgggcaatgt acagggaaatg atgaccagt aatgacgagt ggagtatcca gcaaataaag 300  
tataaggagg gaatgactgg aagttatggc acaaacacgt gccagcagca gcgtaaaac 360  
gtgt 364

<210> 2615  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E1-H3  
  
<400> 2615

atttgaaacg cgtgttttgtt ttttacttt gtacttgatt ctgtaaaac atgtctgacg 60  
atattgtgc cttggttatt gacaatggct ctggtaggtt gaaagcagga gttgcagggg 120  
acgatgtcc tcgttccatg gtggcgtcga tcgttaggtcg accaagacac caagctatta 180  
tggttggat gggagggaga gggagttat gtgggtgatg aggctcagtc tcgaagggtt 240  
atactctttt taaaataccc aatagaacac ggtattgtca ctaattggaa tgatatggaa 300  
aagatatggc accataactttt ctacaatgaa cttcgaattt cacctgaaga gcatccagtc 360  
ttgttgaccg aagctcctctt caatccagag gcaaacaggg agaaaatgac tc 412

<210> 2616  
<211> 433  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E1-H4

<400> 2616

cccacgcgtc cggagacatt ggttgcttgg catgagttag ttgagggttg acggagacac 60  
tcgtgagttg gtacgacagg ctgcggagta catcggtcg aaagaatata aagtttccga 120  
tatagttcga aaacgtctgt atgaagaaga cacgaggttt gccttcttt ctccaaagcg 180  
gtcgcaccac gaagaaatag taggagaact gggagaaaca gtacagagac tgggagccaa 240  
aagaaagcat aaaacacaac acacacctcagc gaaaagatata agaaaaacta cagaaacgga 300  
agattatgga gacagactgt ccacagttc tatgggtacc ttggcctcat atatgaaccg 360  
ccacaaggaa agagtgcctt atcaggtact tgatatggan gaaatactcc acgcaacacc 420  
tttatctccc gtc 433

<210> 2617  
<211> 370  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H7

<400> 2617

agtgactgtc ttcttattcc attttccata caatactcta attgtccgttta aggtttcaat 60  
attattacaa gtaaacatga gttgttcaaa gtaaaaaaaaaa agggcgagag aggaagaaaa 120  
aaaaaaaaaat aatggcgggg agggttcaga cacaaaataa cttcaaaaga aaaataaaaa 180  
gttctccaag cgggggagga gggagtcaag ccaaggaggg gacaactagg gccgtcctgc 240  
cagggaaggc actcgaattt accctgcata gccctttaa aacccatcta cctttcgcca 300  
atgtgcataa tacggaatca gtttggaaaaa ctcaccgttgg gaaaaagatt caccttcccc 360  
aaacttatcc 370

<210> 2618  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H8

<400> 2618

cccacgcgtc cgccccacgctc tccggcagaa tggacgacag gcttccacgt ttcaaaagaa 60

cttccacag agtgcttat aagaaaagaa aggaggacac agtaaatgag gcgagaaagc 120  
ataggaagtg aaacggatta ggaaccgtg tagtctatgc agtaaaaagaa agaatgagta 180  
agaaaaaaagg gagtcattcc agcaggggag taaaggcgca agagggagac ccaaagcaat 240  
tgacggaat cgaaaaagg taagaaagag gaccgaatca ggtaagagg tagaggagca 300  
agaagagaag agagaatgct gggtggagta gcgaaacaag a 341

<210> 2619

<211> 246

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H9

<400> 2619

ggagtgagtg tgcagaggac tcgagccaat cgattggaaat cctattggca atgactttgt 60  
cgtggagttg agttctggta cggtgttgg acaagtttct ttggaaagaca gagaatatta 120  
tgattatgtat gaaaaggaaa aggaacaagt cgctattacc ggtagaaat ggcaatggaa 180  
gagagtataa atttccaaac aacaacaata ataaaaata tagtcataga aattgttttc 240  
cacaat 246

<210> 2620

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A10

<400> 2620

agcccacgacg tccgcccacg cgtccgatcg tcttccacgc ggaagtaata tgatcgatcg 60  
aacagcattg cgcaatgttg gaatgcagta tgtaacaacc gcggatgata ttggacatcg 120  
cttggtcgta gagatccaac taaaggaatc cagcaaatat aatagtcaca tgaaggaagg 180  
agaacgacca aatgcggta cagatatcat ttctacggac cctgaaatgg atagaaagt 240  
atctcagtgg gtgtcgaaag gacaaaaggc attcttagta gaagatgagt tgacgggtga 300  
acgtcgagga atattctaa gctcaaccaa attgaaagtt cagaaacaag ccagtcagga 360  
ccgaaatagc aatcatggag taaatactag ca 392

<210> 2621  
<211> 334  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-A12  
  
<400> 2621

cggacgcgtg ggtggggta tcaggttgc ctccaccatc aactacatct cgaagaatag 60  
tactgttcat cagtcaagta agggcaaagt ctccgtataa caacagcagc cactgtttgc 120  
acactttact ttcgacagta cactcgattt acttgactcg atgcaaattt gcatggtgt 180  
tctgacgctt gacgctcgag atatgtgctc tcgatacaga atcatatgga caaggccatt 240  
gcgcttttat agtgaagaac gttacaatgg cgaatggaaat ttggagttga agaaaatgatg 300  
aacactctac ctgctccagt gatagatgaa cgtg 334

<210> 2622  
<211> 252  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-A2  
  
<400> 2622

ctcaactgaca tcgtatccgc ggttcaacac tagagacgaa cagcacccgac tgtttaacac 60  
aaacacagca ttctgccaa ttgttagaaaa tgctcgagta tcgagtgtgc ggcctgcca 120  
atactaccga ggaacgaggt gtagcatgca ggcaaaagaag tgacgcactc gatcacagac 180  
taacacatgc aacttaggtac agcgaacggc tgagtaccga ggtgtgaaag actggaagaa 240  
catgcaacca ca 252

<210> 2623  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-A3  
  
<400> 2623

ggtcaggaat tccagtcacg cgtcagatgc aagcggccct tcatggata ttatgctttg 60

gcaaatacca aacagcctt attcgaaagt ccaacaaagc aatttgactt gtcctcacta 120  
caaaagactt tcctttgtat tggtccgggt tggttaagaa gcggctatgg attaggttt 180  
ggagttggct gtgggctggg ctgggtcggt gggttgctt tgatggacct gtctagtc 240  
ggtgtcggtt gcaccgggtgg tattcctacg cagttcttgc atggtttgcc ttttggacat 300  
tacgtttctg gggttttgcga gaacttagct ccaaaaatttc ctggaagttc aacaggtatt 360  
ggctgtggtt ttggtttggg ctatggcggtt ggaattggtc tac 403

<210> 2624  
<211> 343  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A4

<400> 2624

gtccgctgca agccgcccgt gctggatat tatgcattgg aaaataccaa tacagcctt 60  
attcgactgt ccaacagtgc actttgacat gtcctcacca tcacacacgt tcagttgtgc 120  
tggtccgggt tggttaagaa cctgctatgg attacgtttg ggagttcct gttaggctg 180  
ttttggacat gagtttgctt tcttgtgtcc atgtcaagtc aaagtgtctg aatcaccagt 240  
ggtagtccta ccctgttcct gttccgattt ccgtttgtgc ataaagtcac tgcattttt 300  
caacatttac ctccaccttt tccttaggagt tcaacatgtta ttg 343

<210> 2625  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A7

<400> 2625

agaagaaaaag aagagaaaaag ccgtactgaa gaccgacaca ggtactcgag gagaaaggag 60  
acccaaatta aggtgagaga atggacgata aggaactagg caaaaggata tggtatctgc 120  
ggtagaaacat atgaaaagaag cagcaccgac tgtttagcat aaacacagca ctctgcagaa 180  
aagagaaaaat gtaaagtata gagtgtgcgg cctgccaaat agtagagaag aaatcgatga 240  
aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt aaggatccaa 300

aggttagcgaa gttaatagac gtttgaagg cgtccagtat gaaggagaa acgagtgtag 360  
caactgtctag tcgtccaact cagcggaaaca gcaataactg tgaaaa 406

<210> 2626  
<211> 402  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A8

<400> 2626

agagcaattg agctaattgaa actgggtggaa gaatgactac gttggactac gaatatagtt 60  
caactccgtt tacagggcca cttctacac ttcacactgg tacagtaaag ctggataatg 120  
atgaaaataga gcgttattta tctcaactga gaacagcgtc ttgcaagccc cttgcagaag 180  
aggatgtctg taaactgtgt gatatacgcc gggagctttt tattgaagag tccaacgttc 240  
atcctgttaa ttgtccaata actgtttgtg gtgatatgca tggacagttt cgctacttgt 300  
tagcactcgt taaaatacgt ggcaactgtt cggaaatacaa ctgtcatttc atgggggact 360  
atgtaaaatag acgatattac tctgtggcag caataactgc cc 402

<210> 2627  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B1

<400> 2627

gggtcgagca cgcgtccggg aagaacggac cgagtttac aagtcgatat tgctggagta 60  
ttcttccttg ccgtttttc aggagtttg atggtaacaa agttctttc ttttagtttt 120  
tatttactgt atttagattc ctgcctttt tgcgttcaat atgttaattc caatagagca 180  
tttgaggaac ggaagtactt attttttcat tgcggtagta attctttgtt tcgttagctat 240  
tgctgttctg gccattctgt atgtaaggtg gcttaaagga aatgaaagaa tgcgacttga 300  
gttgctgttg ggcaaggaga agacagcaac aataacagga acagtgaata gttagaaacg 360  
ttgatgttctg tagatattca ctac 384

<210> 2628

<211> 394  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-B10  
  
<400> 2628

agccccacgcg tccgaacttg acatgcaaca aagtaacctt cgagtagtcc aatcttcttt 60  
ggtgtggcaagg tttgtcctca ttcttaagtat aatctgtgcc attcatgcag taacagccga 120  
tgaaaataaca agtttcgaga gaggatacca aacagttgca ccaactcaga cgcagcaatg 180  
tcaaaagatt tgtgtcacccg ccacacaaac tcaagttcaa agttgtattt aaactcagac 240  
acaggctccg ttcatgtctc aatgtgtcac agcattgcca actacctgct ataaatacgt 300  
aacaaaaatat aagcacgtgt gctgtgagca agaatacgag caacagaatt atcaacagca 360  
gcaggtttgt caacagtatt tgcaactatc gtac 394

<210> 2629  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-B11  
  
<400> 2629

agccccacgcg tccgatctag tcaaaacaac aacagatggc agcaaaaaac tcgattactt 60  
cggaagttgt agattcctct cctagtccta tcgttgcaat agcaatcgac aactcctcga 120  
atcggcctct tttcaactcga acatatgaac atcctgactt ggtgctgcct agcgctagaa 180  
caggagaaac gagagaacaa cagctacact atttacttt ccggtctcta gactttattc 240  
ctggtaagg aaaaagtgcg agggagatga ccgcagacgg ctacttgggt tgtatcaacc 300  
cacaagaacc acttcctata ttgcatatg tcaccaatac aagtgtgaag attttattgg 360  
cattggtatac gcgtacagct aatgatatga aa 392

<210> 2630  
<211> 429  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-B2

<400> 2630

cactctatta tattggctat caaatccgag tatgcgcctt ggcttggcc atcaacggag 60  
aaatttatga agtgcacgtg cgcaattggg gaatgtcgtg gggtgcacc attctttgg 120  
gttcggcatt ctcactgagc tatacattta ccagacaagt acgagcattt acgagaactg 180  
gagttttgg attgtatgca ggatttaccc gcattttctg gtttacccctt atcattttac 240  
tgccctgagac gtatggaaga acgctagaag atattcgaca tatattcgat gaaggtttag 300  
ttggattggc aaaatacaac tggagtcaaa ccaaaacatg gatgaggacg acattaagga 360  
agcagcatgt agcagtcgtat tctagcagag aatcgatga acttgcgtcg agcatatcgc 420  
caacgaaaa 429

<210> 2631

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B3

<400> 2631

gcgaatggga gaattgagca tcttcgtcg tactttagct gaaaatatat cgatgcgatc 60  
tgttgaatgc aacagcattt cacatatgga acttgacgtg aagaatgttc ctgcattttg 120  
cacaacagct ggcgattcac ttgataatgc tgacttgc aatgcttggaa aactattcta 180  
tgagcattat ttgtcaagag acggaattta tttgcattgaa gagaaaaact cttatggcc 240  
tggggttcat attcgatatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300  
atcatcctcg gaacaaatat caaaccctt acagaaacaa aagaccgact tgataggtaa 360  
ttcattgaaa tgtttgtatg actcatgttg cactgtaaac catgatata 408

<210> 2632

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B4

<400> 2632

agctatttga tgatcatttg acatttcttc aacacaatga agtgagctcc ttgttgaatg 60

tgttgtataa gctttctact agtgtggtaa ctattgcata catggaacgt ctccttgt 120  
tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gctttggtat 180  
ttatgttgat gtttcgacgt tcttttggg agcgtgatga gttgtattac aaggccaaat 240  
ctgtttaaag tcaatgttgc tatttgtact tgaaaatctt tttttctttt tggaaatatgc 300  
tggtactacg ttgttggttgt tgtatcgagt gacatgtatt tcgtcttgg acaacacaag 360  
acatgtgttt ttgagtagta taatacatat gcaagacggg tcgagacaca cacatata 420  
c 421

<210> 2633  
<211> 425  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B5

<400> 2633

agccccacgcg tccgcccacg cgtccgcaat acattgcgcg tgcaagaacg gcaaagacat 60  
cgcaaaaagt gaatgagatg ctcggctccg tgaatacggag ttctgcatttgaagctttt 120  
aaaggatgaa gtccaaagtgtg gaagaattgg aaccaagtgc ggaagcaagt gcgggtatga 180  
ttggctctgg aaatgccaat ttggaacgac agtttcaggc attggaagga acttcggctcg 240  
atgatgaatt ggcacaacta aagtcgagta tcgagtcttc ttctcgacct aaatcacttc 300  
cttttcagca ggattccaat atagaagctg agttggaccg aatgaaaaga gaacgagatt 360  
attcttgaac tggtaagggg gggcaatgaa tagacagttat atatataat atatataaag 420  
ggtat 425

<210> 2634  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B6

<400> 2634

caagcgtaga gcagaagaac tgggtgtaaa ggtcgagtag tagagtaagt gtaaaaggga 60  
aaggaaagga gagaaagagg aaaggatga aatgcagaga tctctagaga aaggcaagaa 120

agaaaaagaaa gtaagacaca gtaaaatgagg cgagaaagca taggaagtga aacggattag 180  
gaaccgtgt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg agtcattcca 240  
ccagggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc ggaaaaaggg 300  
gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaggtgttg 360  
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaa 408

<210> 2635  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B7

<400> 2635

cccacgcgtc cgtttgtggc attgtttga agaagagagg cccatcctca ccactacgac 60  
gagagaagaa accatgacta cgcatgttgc aagaggagaa taaagcgttc cacaacagga 120  
agaagaaaat attcccgagg acgccaaaga ctggccacc tatgttcaaa acttgggttc 180  
tcagatgcag agccgttttc aaaccatggc agactctata cttagcagaa ttgacgagat 240  
ggtagtcgt atagacgaac tggagaagag catcgatgag ttgatggaac agactggagt 300  
aatgaaggc gatggaacag agtctggta ggttactacg acaagtcgtg gggagtgaat 360  
gcttcggttg tagtacgttgc gatatcttcc agagtatctc gtactatcta tcca 414

<210> 2636  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B8

<400> 2636

cccacgcgtc cgcacgcgtc tccgcccacg cgtccggag gtgatttcca ccaagtcaca 60  
aagaatcgta aaagagaaaa tgacgatagg tttgtacat ccactggaa ctgtgttca 120  
atgtaacaaa cactacaaaa ctgctacttg ttcttcccag ttttatttcca agtcttcatc 180  
gtttctaggg agaaaccatg ggggttgc当地 gtcgtggct cttgcctatg gaagcaaggt 240  
ggatcggAAC aagtacactt acagtcatcc tagtccgtaa aacaaggaa gaggaccaac 300

tatggttgct tcgaaaacag agttggaca acaagtaaga tccagactag tcaagttgtt 360  
tgagcagaca ccttgcattgc ccatcatggc gagacttgct tggcacgacg ctggaacata 420  
tgatgcac 428

<210> 2637  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C1

<400> 2637

cggacacgtg gggttggagg gaagaactgt ggaacttgc gttgtctggc atcgccactg 60  
ttgttgcgaa gacactcgtc gctccaatag atagagcaaa gatttgtta caagttcaac 120  
cacttactcc ttgccctgg tatgctcgct atagaactgg tttggaggct cttaaaagta 180  
agcggactat tgacagagtt tatattgctg acgttgaaaa ggaattccaa gagaacaggg 240  
attctggca tattggagag gaaatggagt gaatctactg agaacgatac cagggctcg 300  
cttcaagtttgc ttcatctacg aatactttaa agatcaattc ttcccttccaa ggaaccaatc 360  
ctacgatgga ttgttgcatttgc tattgcgtaa agtaggcgcg ggcgtttcg 420  
cgctgtaa 428

<210> 2638  
<211> 181  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C12

<400> 2638

agcggacgcg tggcgtatt cgcgcaatga gaggcaacgt gactatgaag acagaccctt 60  
tttgaagtttgc gtgaaaccac ttctgtgaccg tcctatcagt ttttatttccc caaatgtatgc 120  
aaatagcagg attcctcatt agttggatag tacaataaat agttgttgcg ctttatgttgc 180  
g 181

<210> 2639  
<211> 419  
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-052-Q1-E2-C2

<400> 2639

cccacgcgtc cgaaaaggat atggtatctg cggtagaaca tatgaaagaa gcagcaccga 60  
ctgttttagca aaaacacagc actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg 120  
gcctgccaaa tagtagagaa gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata 180  
gagaatggcg gtcctaactg taaggatcca aaggtgcga agtaaataga cgtttcaaag 240  
gcgtccagta taaaaggaga aacgagtgtc gcactgtcta gtcgtccaaac tcagcgaaac 300  
agcaataact gtgaaaatgc agtaaactag cagtaggacg gaaagcaccc ataagtcttg 360  
actagatagg tttaaggang agagagaatc atgaagtaga cgaggtgggg taagagatg 419

<210> 2640

<211> 433

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C3

<400> 2640

agcgactagc gaagttgcag aatttcttcc catcatttct atattcatca tgctgtacgg 60  
tgtggtcact ggagccggag gattcctaag aaagttgctg gttgagaaac tctccatga 120  
cgaatctatt gaaacaatac tagcacttga tatgaaggag ccactcgaaa gcttagggaa 180  
cttgcctaaa acacagaaga aagtggtaga tattcaccgac gaattgcaag ttaagaaagc 240  
tattgaagga tatcaagtcc acggggtcgt ccacctcgct gctattatgt caagtttatac 300  
tgaagccgat ataaccagtg caatgaaaat aaatatgatc ggtgcgatac atatgacgtg 360  
atccgtacgc aacgaggcag caaatccaag atttggatc tctagttcaa ttgccgcctt 420  
tggaaatgtt gcc 433

<210> 2641

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C4

<400> 2641

agataatggc agttaggcaa tgtttgccta tttcatatg tctttcagct ctgttaggtt 60  
caactttggc tgcttctggc gcaacgtcta tttactcggt gcttcagagt aaaagagact 120  
atactttac agtccaaagc atagagctgg ctaatctaac agacgtatac aacagcagtg 180  
tattggactt tacccctt gcttccaatg acactgctt gaaacaatcc agagccatg 240  
tcactgggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300  
gcttgatagc agcaaggcaca gtgaataaaa cggtgaggt tagtaagctc tctagtggtt 360  
cgaaggaggt tgttcgctg gcaggtttac cgcttaattt cacg 404

<210> 2642

<211> 419

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C5

<400> 2642

agcccacgcg tccgcccacg cgtccgcccc caagggccaa tcattgtccctt cgctattccct 60  
gctgttgttt ctaccggagc agggctatct ttgggtgtag ctgcttcaat tgcaaaggct 120  
tggtctgacc tggatcattt atgttagtgcc agggatagag cgctcttgag ttggccccaa 180  
gttttcaaaaa gttccaagga caagggcaat cttctcgctc gtcaaggaca agttctatt 240  
gaagccccag gttaaagctga gagaattgca agacaaagag caggaggtat ccgttagtgcc 300  
gaagatgacg tcgtaccaga ggaacccaac tttctagcaa aggttcccaa acgggagcga 360  
gatgggagag cagttttcg tccttcaaag aagtcaaacc cgttctccctt cgagccac 419

<210> 2643

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C6

<400> 2643

agggccttgt gcaagtcaac aaacatagaa aagtacagag attgcaagaa gataatattt 60  
tgaatagagc actatcacaa ccaggagatg tatttctgtt ctttgcaac atccagttgt 120

tggtaatgc agaaagagct attataggaa atattacttg tccagaaaagt atcgaattgt 180  
gtcgcttatt agctggacat atagcggtt gttcgatga acattggat gacttcgtt 240  
tggaaagctat cttgggagca ctattgtgtt cttgttattt tgagtggaaag cgtttgaac 300  
gagaattggg ggtacaagaa tggaatgaat tgggaaagat agttcccta gataacttgg 360  
agtttgct tggtaacaaga caaagagtgg ataatatgtt acagcgagtt acacag 416

<210> 2644

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C7

<400> 2644

agcatcatga aagctgctgt cttgcattc tttgtcttag cactatgcgc cgttgcttatt 60  
caagcttctc ctctagagga cactttgggt gcctttatgc ggggtggta tcaatcgcaa 120  
agccaagcac caaaacctag ctgttgcagg ttgaactgtc attataccca actttgtgaa 180  
caagttatcg tccagactca acacgtcgac caaactcagc acgtttacca aacataccaa 240  
gtacagcaaa cacaacaagt ttctgtcagca tactgacgca atgaggatc cagaggggaa 300  
tatggccaac agtctgttagc cccagctcct gcacctccg tgtcagtgtt ccagtcaagt 360  
gctgtattga ctgctcgct tgctaccaat aagtttctca tcacgctcct cagcaagtat 420  
ctcaac 426

<210> 2645

<211> 435

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C8

<400> 2645

agacccttt gtcttcggt agagagtgc aagggttgc gctaccaaga cggcatgtct 60  
atgcgctcgg gcgacacaga acgagaataa ctagggcaaa agacggaatg ccattcgata 120  
aagagtaaac atgcgtgaca ctggaatgc aacaaccgct ggttcgctt ttgcataatcc 180  
agccggcgt gtcgttgtct cctgcgagtt agctccggta taacaaggct accaagcctt 240

cttgcataatcg ttcaggcattt atgtcgattt atagttcaag tgtatTTgg aaaaagagta 300  
ataacaaggac gacttggcTT gcatcttctc gtttccttcg tgggttgcta ctgctgtaaag 360  
tgctcaggga atactacagt gaaaccgaac caatcgagcg aggtttgct atgacagagt 420  
gataagaacg tggac 435

<210> 2646

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C9

<400> 2646

agcccacgcg tccgtctttt tcttggc ttggccgac ttgcaaagag gatgtatgaaa 60  
cgagacaaga tcaagtcttg gtatcttcc cagtcttatac cagtggcggt acaaaataga 120  
atcacccaat gtcttgctttt attacaaaat caacccaaca atattccttg ctatataccaa 180  
caatatggaa tacccgaagt tgctggtttgc tgctttga tatggaaactg ttgcattgaa 240  
aaattctttc cggtcgattt tactacctt ttgcacgtt cttgttcatc gtattggaa 300  
tcgatcgac aatatcagca acatccaacc gacgacccac tactggatag tagtaccacc 360  
gagactgtcg tggaccatcc tctcaaccc 389

<210> 2647

<211> 356

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D1

<400> 2647

cgcgacgact cggtcaactt tcgcaaggca aactatTTTC tgggcgttc gagtttagttt 60  
gtacttgatg gttttcatag ttactagaat tggaaagtgg atcaaccgct ttatcagtt 120  
gacgcacatcg ggatattcac cctttgtct catggtgctc catgcagttt ctcagagttt 180  
gcaaggTTTT ctatTTggac ttacttatat ttaccacgaa agacgactag gggaaagtgt 240  
tctattcatt cgtcgcaagt ggagtgcgag aggggatTTT cgcgaggatt ctTTTatcgc 300  
attagagaaaa agaggacttg cccattttc acaatttgat gaagacgagg aagaag 356

<210> 2648  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-D10  
  
<400> 2648  
  
agcccacgcg tccgagtctg ctctggttcg agtttgagg agaaggaacg ttgcaagtca 60  
aagcaaccca ttctcgatat gctcttgaa aattcggcag gtctgcatca aaatgtttc 120  
cgtgacttt ctatgtggaa aagaaaagaa aggacattat atctcaaaga tgatctacca 180  
gtgatggatt acaaattcat cttgatgagt tgggggtcaa cgatccatat gaaatgaagt 240  
ctcaattatg gaaatgactt gccaggttaa tttcttagca ttcatttggc ttccttatac 300  
tggaaaactc cgatggaaag tttgtggata aattcagtaa aaagtataac agcagaatac 360  
tctaattggaa aacatttgcg gaaatttgcg ttttg 395

<210> 2649  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-D11  
  
<400> 2649  
  
agcacatgg gcgggattcc gagagagtgc atgttggtag aacaaacgtt tgctgttgac 60  
aagactttta cgttttatac ctttcaatg tctgcagtgg aagtcttaca agtaaatgtt 120  
ctaaataacc ctggtttctt tcgagacccg ttttggggtag acataactta tgaagtgaga 180  
gaagcgttac aacaagatat tgagtggaaa gtaatttatg tgagttgtgc caaagacgag 240  
agtttggacc aagttttgga tgaagtactt cttccagcag atacgggtgg tcgttttcag 300  
tttactttgg aggtctcagc acccaatcca gacaaaatac ctagtgatga cttattgggt 360  
attacggcag tattgattac ttgttcc 387

<210> 2650  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D12  
<400> 2650

agccccacgcg tccgaagttt ctgggtctag gcagtctcgt atctgagcgt cgccatgaca 60  
atgaaaatac acttttggcg acagaattca ccttcagta ttctcagagc aggcaaaaca 120  
cccttttag tacaatatcc atgctgcaga gttcgaatgt aataagaaaa atcgctcatt 180  
ttggcgccctg atcgaggctt gccatacgca tttcctcatc gctggaatgg aacatttcga 240  
gttattttac tatggtgaga agaaggcgt ctcagtggcg acatttgtct tcaaaataat 300  
tttttgcgag aaaggaaaaat aacgtgagag tataagtacg gccaagaaga ggcatttcaa 360  
atgaaaacta agatggaata atacgtctac tag 393

<210> 2651  
<211> 378  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D7  
<400> 2651

aggtactcct cgaaagctat ataagtagcg tatgcaggaa agaagaaggt aaaggaagag 60  
aaggaagaag cagagaggga ctatgagcga gaaggtggat agtcgagagg gaaaaagccc 120  
agaagccaag ataaggtatc aaagtaaaga aagaaggaaa aggagaagaa gagaggtag 180  
gcttagaagc agcaaaccag agagggaaagc gttaaagcat gaaagaaaag aaatccgaag 240  
aagaagagaa aaaggtaaaga aagaggaccg aatcaggta agaggttagag gagcaagaag 300  
agaagagaga atgctgggtg gagtagcgaa acaagagaag ggaagtaaaa cgtaaagaaag 360  
aggaaagggtt tacgagag 378

<210> 2652  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D8  
<400> 2652

aaaacaaact tgtggaggca gatgccatca tatttggatt tcctacacgc tttggtatga 60

tgtgtgctca aatgaaggct atgtttgact ctcttgaca tttgtggcaa agcggtcagc 120  
tggttggaa acttgcgggt atctttgtat ccaccggta ctaaggaggt ggacaagaaa 180  
cgactgctt aactgccatt actcagttgg cacacttggg aatgatttc gttccgacag 240  
gttggaatat attggaaata actttcatg ttttgtaat attggatagg atattcttat 300  
ggcagtgata tgtttggtt aaaggagcct cagggaggtt ctgcttatgg tgcaggtacc 360  
tttgcaggtg cagatggaag tcgacaacct tccgaatacg agttggctag agcaaaaacat 420  
c 421

<210> 2653  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-E11  
  
<400> 2653  
  
agccccacgcg tccggtcgta gtggtaaatg aacaccgaga gcaaaaactgt caaacttgc 60  
agtagtgata atgaagtttt tgaagtagac acaagcattt tatcccttcc tggaaacaata 120  
aaaaaacgtct tggaaagacac ggaggataca gagagcatc ccttgccctaa tggaaagga 180  
cgaattcttgc caaagggttat cgagtattgt agatatcact cactcttaaa gaccattccg 240  
cagtctgagg aggatattga gcgcgtggat aggaaattcc taaatgtaga tcaaccaacc 300  
ctttttcatt tgattctggc tgccaaactat ttggatatca agagcttggtt ggatttaact 360  
tgtaaacgag tagcagatat gatcaaa 387

<210> 2654  
<211> 432  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-E2  
  
<400> 2654  
  
cccaagcgctc cggtgtttt cgtaaaagtt ttcattcagc atggctcccta aaggtgctaa 60  
aagtgtaccc gttgcaggta aaaagccgggt ggcaaaaagtt gaaaggaaga aatcaaagaa 120  
gaagagatcg gagacgttattt ccatttatata atacaagggtt ctgaagcaag ttcatcctga 180

caccggaata tccgcaaagg ctatgagcat catgaattcc tttgtgaatg atattttga 240  
gagaattgcg tcagaagcta gcaaattagc tgcttattcg aaaaggcaaga cgcttacttc 300  
gagagaggtt caaaactgccg ttgcgtttt gttaccagga gaacttgcaa aacacgctgt 360  
atcggaaggt acaaaaagcag taacaaaata cacttcttct taacggtaca acaagtgctc 420  
aaaagggtgtt tg 432

<210> 2655  
<211> 284  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E4

<400> 2655

gaccacgcgt caggactagt tcgagatcgt gaggggattt cggttggcc taggcgaat 60  
ggcaactcgt gtggaaaact tgcgcgttaa ggagaccatg aagagacctt gcaaaggccc 120  
ttttgtggct cctgccttcc aacaatggct tccaaacact taaaaaagaa ctgccttttag 180  
caaggatgcc ttttgttagag taagcctgaa gaagtgttt tcgcgcacaa ctaccgtttt 240  
tcaaacgacc agtcactatt caagaactat cattatggcg gatt 284

<210> 2656  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E5

<400> 2656

agcacacatt cattttgcc tttcagtaca gcttatgttc cagttctatt tatctaagga 60  
gagttgcattt gaagagtatc aattatcatg gttaccctcg agttatcgta cctaataata 120  
ggtaatctt tccaagaattt atctcaagtgc tgccgatag tagcagtgc aaggaagggt 180  
tcaagaatat cgttataat atcaaggaaa aaggttctga aatataatcac tcagttgaag 240  
aaaatgtaaa gaaggagca gaaaaagtat cagaaaaggt tgatgaattc aaagacgctg 300  
tgcaggatag aatggaaaat gcagatactt ccaaagcaa agacgtagca agagatgtt 360  
tagataaggt caaagatgct ggacaatccg taaaggaggg tgtctctgat ggcaaagaag 420

<210> 2657  
<211> 163  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E8

<400> 2657

gacccaagcg tcagcccacg cgtctgtcca cgcgtagta caaccggc ccgacttgt 60  
agtgaccaag gcgtcgaccc tggcaccatt atcctctatc accggtaactc tcataatggg 120  
ggagaaaacac ttagagacct cttttcaggg ctaacctaataa gtc 163

<210> 2658  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F10

<400> 2658

agcgggtggat ttccaggctt cgatggagag tcacccataaa cgtttacga tatttgtt 60  
ggaatccgag agacgataga tttgctttt cctgcggatc aagtgcagg catagcagag 120  
cctggcggtt atttgttcc atccgcctt actttggcta cgaggattat tgcccgctgg 180  
tttcgaaccc aatcacagga aggagacggc agttgtctga aggaggctt ttgtttgcaa 240  
gaagatattt ctcgttcgag tcttggctt gattactatg ttgatgatgg tgtttatgg 300  
tcgtttcgag atgtgatatac tttgggtgtg gtattctatc ccaaaacgtt tagcagctct 360  
gacgacactg ctattgacta tgcacgtttt gttcgt 396

<210> 2659  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F11

<400> 2659

agccccaggcg tccggaacaa cttttgagca tcaatcaaaa tttcactgtt tgcttagtt 60  
gttaagtacc aagtttagcat acaagggtgc cgccggatgtt aatcacacat gtcgttgcta 120

cactcctgga aacaagctcc ctcaaggcat tcatgttccg gaaagaagta aagtggcat 180  
gcttcgtgac gaagatgttgc aaagctatacg tgtagtcgt atagtgtcag gttgaagaga 240  
ggcctatacg tcgacagaga atccaggtgc gaaggtcaat gagaatcacf tcctgaaaga 300  
catggtgtcg tcattggacc acatgagtct gaaaaggctg tcgtgagttg ga 352

<210> 2660  
<211> 402  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E2-F12  
<400> 2660

ccggctcgac ccaagcgtac gcccacgcgt ccgggtcgag tagtagagta agtgtaaaag 60  
ggaaaggaaa ggagagaaaag aggaaaggga taaaatgcag agatctctag agaaaggcaa 120  
gaaagaaaag aaaggaagac acagtaaatg aggcgagaaa gcataggaag tgaaacggat 180  
tacgaacccg tgttagtcgat gcagtaaaag aaagaatgag taagaaaaaa gggagtcatt 240  
ccaccagggg agtaaaggcg caggagagaa acccaaagca attgacggga atcgaaaaaa 300  
ggggtggatc acgtaaatta atccgatgta aaccgagaac cttacctctc caagaagggt 360  
ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa cg 402

<210> 2661  
<211> 407  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E2-F2  
<400> 2661

cccaagcgtc cgcattttc tttggagaa aacgacgtcg tcgactcatg gcacctaaaga 60  
agacttcgaa agtagcacct cctcctgaag ctctggtaa aaaagaaaaa aaggagaaaa 120  
agaaagagaa aaaccctttt ttcgaaagca gacccaagaa cttggattt ggtggagatg 180  
tacaaccaaa gagagatgtc tctcgaaaa ttcttatcc cagatatgtt cgtcttcaaa 240  
gacaacgaaa ggttctcatg tcgagactca aggtgccacc tgcgatccac cagtttacgc 300  
ataccttggaa taaaaacgtt tccaaacagc tattccgctt gttaatgaaa tatagaccag 360

agtgcgagggtt ggaaaagaga aagcgctac gtgaaatggc agaagct 407

<210> 2662

<211> 443

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F3

<400> 2662

ggtctagaat agcgggtcga ggcacgcgtc caccacgcg tccgcatttt tctttggag 60

aaaacgacgt cgtcgactca tggcacctaa gaagacttcg aaagttagcac ctccctcctga 120

agctctggtt aaaaaagaaa aaaaggagaa aaagaaagag aaaaaccctc tttcgaaag 180

cagacccaag aactttggta ttgggtggaga tgtacaacca aagagagatg tctctcgttt 240

tgttcgttat cccagatatg ttctgtttca aagacaacga aagttctca tgctcgagact 300

caaggtgccca cctgcgatcc accagttac gcataccttg gataaaaacg tttccaaaca 360

gctattccgc ttgttaatga aatatacgacc agagtcgacg ttggaaaaga gaaagcgccc 420

acgtgaaatg gcaaaagctc gag 443

<210> 2663

<211> 425

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F4

<400> 2663

acgcgtcagg attactagtt ctgcatttga gccttcgaat atgatggcca aatgcgatcc 60

aagacacgga aaatatatgg cttgctgttt aatgtaccgt ggtgacgtcg ttcccaagga 120

cgtgaacgca gctgttgctt ccatcaagac gaagcgtact attcaatttg tagactggtg 180

tccaacagga ttcaagtgcg gtatcaacta tcaagctcca tctgtgattc ctgactcaga 240

attggctaaa gttcaacgtg cagtctgcat gatttccaaac agcactgcca tctctgaagt 300

ctttgccaga attgatcaca agtttgcattct tatgtatgca aagagagcat ttgttcatttg 360

gtacgttgga gaaggatgg aagaagggtga atttccgaa gcacgtgagg atcttgccgc 420

tctcg 425

<210> 2664  
<211> 346  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-F7  
  
<400> 2664

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cacgttgac ggtaacgatc gtaggctcaa ccgatggtct cgaccggta cggggaaacta 120  
gcggtacaat aatgaagtgt attggagaag ataaccacca tagcaccatg gaagcttgt 180  
cttggtacaa gacaaaccat ggatgatatg ttaccgcgaa tctgcaagca ggcgagcaac 240  
atggccactg aaaacacgtc caaacaaccg aaatcgact agagaatagc ggacgatgta 300  
ccaggttgtg agacccagtg gagaggagtg cactaggtcg ttggag 346

<210> 2665  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-F8  
  
<400> 2665

agccccacgca tccgcccacg cgtccggcta aacgttgcct ttgtcgatg tcctctagcg 60  
aatatagtga ttccctttgt caagaaagat actttttgc tttggctgt gaatgtgtc 120  
ctgatcgta gtcttatgc ttactactt ttggtaaaag acgcgccagt cgccatgaga 180  
attcgtggca tttggagggtg agcataactt gcaacggaaa aaaaggtcaa gtttgaaca 240  
agtaaaaggt tttggcttg gggtagttgg aagtaggcaa cggagatgat aatagaaagc 300  
agtcgtctt ttagctaaaa gaagaatgca ctaagtcaat gaagaaatat taggaagcaa 360  
ctttacggaa gttatg 376

<210> 2666  
<211> 167  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-052-Q1-E2-G4

<400> 2666

tcagcgtcga actgcaccac tcattgttct gtctcgccct cgctgtacag cgatcttat 60  
ggttgtgtag aagaactctg tttcctgcaa tatagaaagg tatgttagttc acaaccctttg 120  
tacttcatta tcttaggttgc tacgcttagt tgtgatagaa tacctca 167

<210> 2667

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H1

<400> 2667

agacgtatgtat gtatttgctc ccaccaatga atacgtcatt ggaactgcca atatgttacg 60  
cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120  
gtttggaga ttccagatg atatttatga tggctatact agtaacgttc caggaaatcc 180  
gtggattctta tgtactttag gaatggcgca atattattat gagttggcag cagagtggtt 240  
gaaacatgaa aagattgtca taggaaaagtg gagcaaagac ttttcagac atttgagggt 300  
tatgcctcct ccttctcctc ctcaatcttc tataatcaacg accattactg gaaaagcgat 360  
ttgtagttat gtttctgcgc tattagaaga aagagatcgc gtattgaatg ctattcgaaa 420  
gcataaca 427

<210> 2668

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H11

<400> 2668

agtgccctag ttgccattac tttgggacca cgtggagctt tcctttctac tcattccaat 60  
ccttcgtca tagaaaagaa tatacgcttgc tttccttgc ttgcgcagg aaaggccgtc 120  
tttcgaccca atttcaggc gaaaggcact atcaacgcag ttggagcagg agacacattt 180  
acagcaggtt tattagctat gcttctaaga caagcacatt cttcatctt cctatcttg 240  
gaattgttgg cagatgttgg attggctgct gctatgcaaa gaattgactc tggagtcgaa 300

ccaaaaacac tgcaaaaact tgttatgcaa ctcgatgaga tgccccgtgc ttctgttcag 360  
tcccttgat catttgaat aaatctt 387

<210> 2669  
<211> 328  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H12

<400> 2669

gaccaacgcg tcaacccacg cgtccgcgaa gtattcaatc ctccaaagaa gcctatgacg 60  
gatgatatca caggaaagcc tctggtaac cggtcgatg ataatccaga aactttaagg 120  
aagagattag aagcatttca taaaagtacg gatccggta tccgtatta tgagaagaaa 180  
ggtattttaa gtcaaaaaaaaaa tgcttcaaaa gaaatcgatt taagtatccc aacaagtgg 240  
gcaagctatt gaagaacgac aaaggactgc caatgcagcc tgaaagttgt tttgcaagta 300  
aaaagtgttg ttgtttttt gtgcgtt 328

<210> 2670  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H4

<400> 2670

tccggaaaca ttggttgctt ggaataattt atttgagggtt ggacggaaac actcgtgatt 60  
tggtacaaca ggctgcggat tacatcggtc gtaaagaata taaagttcc gatatatttc 120  
gaaaacgtct gtatgaaaaa gacacgaggt ttgccttct ttctccaaag cggtcgcacc 180  
acgaagaaat agtaagagaa ctggaagaaa cagtacaaag actgggagcc aaaagaaagc 240  
ataaaaacaca acacacctca gcgaaaagat atagaaaaac tacagaaacg gaagattatg 300  
gagacagact gtcccacagtt tctatggta ccttggcctc atatatgaac cgccacaagg 360  
aaagagtgcc ttatcaagta cttgatatgg aagaaaatact 400

<210> 2671  
<211> 368

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-052-Q1-E2-H6  
<400> 2671

agaaaagcaag gaaaaacagtc gcaacaaaac aggggaataa aaataaacaa gaatgtgtgt 60  
cccaagttgc tgatatttta atggacaagc agcaatgcga aatgctacaa gaacaagtga 120  
aagaatactt gttacgttaa ctgggtcaaa acccggtgaa ctcaaggat gaccaggagt 180  
tcccgagtct atcaaagacg atcgaatcct tggttcgaaa tccagtcct caaggtgaat 240  
ccatcattct aataggacct gcaggctctg ggaagaagaa gcttagtagag gaaattgtgc 300  
agaaaaatgaa atcagaaaagc cagactcaac gtttcaaagt gattcaactg tacggaactt 360  
ttcatgct 368

<210> 2672  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-053-Q1-E1-A1  
<400> 2672

cccacgcgtc cgccccacgacg tccgcccacg cgtccggcat gatgaagagc gctatgaagt 60  
tctttgtatt tagcattatt ttggcaaattt ttgttcttac tattcaagca gcaacggttt 120  
tggagacttt ggagtcactg aaatatacag agtatcttga catggtaaag gctgcaggcc 180  
tggactcgaa gttcaacgac tctgctgtta catggactgt ttttgcagca aacactactg 240  
gagtcaatgc caccttggca ccaatgcact tggttatttc taatatcaca tctaattgcga 300  
cgagagagcat agacattgtg gaatatacgt tgtacaacca tactcttttgc tcaaattgata 360  
ataagacaag gagcacctat ctttaccggcc gtatacggaa tgaatttgac tgt 413

<210> 2673  
<211> 364  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-053-Q1-E1-A10  
<400> 2673

gagccacgctcg tcaatggaaa gaatcgctca agaaagagt attcttgcg atatatcggt 60  
tctctggttt cgacgtaca tagaacttta ctttatggtg gtatatttg ttatcctgga 120  
gataagaaga atcctaattgg caagttgcga ctgctttatg aatgtgctcc gatgagttat 180  
ttgattgaac aagccgggtgg aaaagctacc aacggaaaac aacgtatccc ggatatcggt 240  
ccaaacacga cccatgaacg acagcctctt attttaggtt cggaagaaga cgtcgatgag 300  
ttgatgcaac tctacgcagc caagttgcaa agtaaagtct agttgtgtct catggttgtg 360  
atga 364

<210> 2674  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A11  
<400> 2674

gcgtcaaccc aaacgtccgc atggacctat tgcatcaccc acaccaccac tagcgtacca 60  
tctcaatgca gcaaggccgt gactacccat actcaaacct gctgtgctta tgcccaacaa 120  
acttcctatg cagtcagttac cgagcaatat gttcagggaaa ctgtatctgc tcaatatact 180  
tcttactacg gcaaatcatc ctccagctat tattaccgag cagctgctcc tcagagatgg 240  
tatgaggaac aatgcaccc atactgctgg gttccagttac agacctatga aacttatcaa 300  
tgttctcaag agaagaagaa ggagtacagc tatccttgc taaacttatga gcaggttca 360  
actac 365

<210> 2675  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A3  
<400> 2675

ggcacgcgtc acgcttcata taaagcattc ccaacactgt tcgaaaaat cactgcctaa 60  
tgcgttggc aattgatcat gttaatctca ccattgacag tcgaaacact cattgatgg 120  
acaaaacttca acttgtgata caacattgag aagaagtacg actcagttt gtcccaatac 180

aaatatactg gtccatgtca ttacatccgt acgatcaact tttgcttaag gggatcgttg 240  
gcttgatgaa gaggagactt .gggaggagaa tactcataat aataatgagg atgatgagga 300  
tgatggaaa gagtcgcaac aacaacaaga agaaaaagcgt ttacgcaaga tgcc 354

<210> 2676

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A4

<400> 2676

cccaaggcgtc cgaaaaacaag cattggaaga aaagaatcta ggcaatgaat attataagaa 60  
gaaacaattc caacaagcta tcgaacatta taacaaagct attgaattgg atcccttggaa 120  
tttatcttat cttacaaaca gagctgctgc ctattnagaa atggcgagt tggatagttg 180  
tattgaagac tgcagaaag cagtggattt gaacaaggaa tataacttga gaacagatta 240  
taaaataatt gccagagctt atgcaagaat gggcaatgct tatgcaaaga aacaagatta 300  
tgacaaagca atcgaatgtt atgagaaatc gctgttggaa tatcacgacg acaaagtata 360  
ttcgaaaatg gtacgaaatg aagaaactca agaagaaatt ggaagaagag tottatatcg 420

a 421

<210> 2677

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A7

<400> 2677

aggccacaac caaactttt tattgtttt gattgtgatg gtgtacttgtt aaactcgaa 60  
ccttattctt gtgagtcct tcgacaagctt attcttcgag ctactggcgt ggatatccca 120  
cacgagtttcaaaacgacta ttttgaagtg tttggctat ctgtcttattc ttccattgaa 180  
tattatgtga aaaagggaaat tctacccgaa aacacagata tcgatggtgtt ggctagaaaa 240  
gtgaatgagt tgaaggatcc aatatatgaa gaatttagcaa gaggaaagttt atcaactttt 300  
cctggattga aggctttct tgaggaagct tgcgaaaaa aggttgctct aggtgttgg 360

tcttccggga acacgggaaa agatccgatt caatctaaaa caaggcaggca t 411

<210> 2678

<211> 259

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B11

<400> 2678

gcgtcaaccc acacgtccgc tcacgcgtcc gctcaacgac gtagtgagac tcactcagat 60

tctctttgtat ttgttctatt catctcgat tccctatcgt tgcatcgat aatcctgggg 120

tcaagtaaatc gtgcctcttt tcactcgagg gggtaaacac tctgatatgg tgctgcttat 180

ctctggggga ggagaactga tagaacacca gctagactat ttatTTTCC ggtctctaga 240

ctttattcct ggtgaagga 259

<210> 2679

<211> 142

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B6

<400> 2679

acccaagcgt cagccaaactc accaagatga attttaatc catcaatggt agatcatctt 60

ttagatctaa ggtcctttct tttctttct atatggaaaa ttcagggaga aatggtttgg 120

tccagagctg ccgaatttc ca 142

<210> 2680

<211> 60

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B7

<400> 2680

acccaagcgt cagcagacac gtagggtcag gaatattctc gaagaagatg caattaagt 60

<210> 2681

<211> 98

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B8

<400> 2681

actcacgcgt cagcccacgc gtccgaaaaaa aaatagaaaag agaaaaaaaag gagaaaaaaaa 60  
ataaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaagat 98

<210> 2682  
<211> 238  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C1

<400> 2682

gcgtcaaccc acgcgtccga cacacataaa gaagaatgtc gacgacgctt attgaaaaga 60  
atgtggttca atgacttgag tactttcca gtgacgtatt cggttcttct tttatgtgtc 120  
attacttgtt aataagatat gcctgttgtt gactagttac cgagttgtta ctacgttgtt 180  
tattacttat caaggtgtt cttatgatat cgttgggtt aactacgatc gagttgtt 238

<210> 2683  
<211> 275  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C11

<400> 2683

cacgcgtcca cccaaagcgtc cgcgcatgct tcggccatg cgtccggatg ctcattccag 60  
gagatcgta aagagcaacc agacttcgag ccacgagagc actcaggaag atggtctaga 120  
ggatggatt caaaagcaata ccgtggagac cgatgtgtca cctccaggtg gtttaggcat 180  
tgcgaatctc gactagttgg ctgaacacgc ggctcagagt ctcgtcctcc ctacgacgga 240  
acgctctaga cagccccacg catggaggcc gtgaa 275

<210> 2684  
<211> 284  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C12

<400> 2684

cacgcgtcag ggaaaacgatg agaccgtatga tcgggatgag ctgcagagat ctcccagaga 60  
agagcatgat ccgagcagac cgaaagactc agtccatgag gccagagagc ctgataggtg 120  
agacggaggt cgacccccgtg ttctcggtgc catcgaagtg ttaccgagtc gtagtttagg 180  
gagtctctcg ctcaggggac ttcgggcagc atgctgcacc cagtctcgcc tgacgtgaga 240  
cgaaaaaccgc ggtggattcc ctccattgtat gcggtaaacc cgtt 284

<210> 2685

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C2

<400> 2685

gcgtcagaga gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag 60  
gtaagaaaaga gcaaagggtt acgagagaag gaagtagaaaa gaagagagtg taaggcggcg 120  
tcataataga aatccgaaag gactagaaga aaagagagag aagaaagaaaa agaagagaaaa 180  
agccgtactg aagaccgaca caggtactcg aggagaaagg agacccaaat taaggtgaga 240  
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 300  
agcagcacccg actgttttagc aaaaacacag cactctgcag aaaagagaaaa atgtaaagta 360  
tagagtgtcc ggctgccaa atattagaga agaaatcgat gaaagtgaaa gcgagtaaaa 420  
gatg 424

<210> 2686

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C3

<400> 2686

gcgtcagccc aagcgtccgg tgatcgac ggagaaacgt atgccgtcca ttcttatgga 60  
aagtctatact ttagaaaaga tatctttat ttcggaaact acaggaatgg tgtattcggg 120

tatgggtcct gattcaagag tattatttag aaaggctcg aagttgctc aaagttacta 180  
tcaaacctat aaagagccca taccagtgcgt tcaacttgta cgagaaacag ctttcgttat 240  
gcaagaattc acccaatctg gtggcgtaag gcctttgggt gttagttgt tgatagctgg 300  
ttgcgatgaa caaggaccac acctg 325

<210> 2687

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C6

<400> 2687

aggtgtggttg tggagtaagt gcgcttggca gcaaactaaa agatggcaag aagaatcatc 60  
ggagcttata tgtctgacgc tactgttagcg tctctattta gcgtgaaaat gttgttctac 120  
cttacaatac ttgcgttctc tatcactatt gtgggtctta tggtaagag ttccgacggt 180  
atttgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240  
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgttagc agctattgg 300  
ttggttatca gcttcttcga gttttggat gcattcctcg gaattttctt caagtggcaa 360  
caaaagttgt ggtatattga atctgctatc aacgtgtttt tctggcttg gtggtt 416

<210> 2688

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C7

<400> 2688

aggtgtggttg tggagtaagt gcgcttggca gcaaactaaa agatggcaag aagaatcatc 60  
ggagcttata tgtctgacgc tactgttagcg tctctattta gcgtgaaaat gttgttctac 120  
cttacaatac ttgcgttctc tatcactatt gtgggtctta tggtaagag ttccgacggt 180  
atttgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240  
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgttagc agctattgg 300  
ttggttatca gcttcttcga gttttggat gcattcctcg gaagttcgt caagtgg 357

<210> 2689  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E1-C8  
  
<400> 2689

agccccacgca tccggcccacg cgtccgaaat attcgtagaa tggaacaaat attgttggag 60  
agtcaaaaaca aagcgcttgg acaggtgaaa aaggaggcct tgtctataag gtcgttgaac 120  
cacgtttcct tttctgtacc cgaaccagtg aagacggca agttctttg cgagattctt 180  
ggctttcgag tggttcgacg acccaacttc aattttgacg gtatatggtt gtacagttat 240  
ggtattcaaa tacaccttat cgaaggtgct gctctgaaa gaccaaataat cttgaaacca 300  
aacacagacc atatatctt cgaagcggat gacctcacaa gtatacagaa taaattggac 360  
actttaaata atccgtatct tttggagtat cacgaacggg agaacttgag acag 414

<210> 2690  
<211> 255  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E1-D1  
  
<400> 2690

cgacacgggt ttcttgcct ctaagcgaaa gccttgcatt cgttggaa agaacacaac 60  
aaccttccca agccgccact ttccaaaatt ccgccaacca ataagaccaa gattggaaatc 120  
caaggccaaa tggtaacaa gttggcaaa agatatgaac cccaggaca gagaacaagc 180  
caccatccct tcggggaaa ataagttgtt gaaaactccc caagttgcca actttgaaga 240  
tatgggatataaata 255

<210> 2691  
<211> 329  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E1-D11  
  
<400> 2691

atagataacgc ctaactgttag ttcacgattt atattgttgtt cttgtttggc ctttataacg 60  
actataactt tggttaaatgc acaacgaaac tattataaaag tgctggcggtt ggaaaagaac 120  
gcttccgaga gtatgtggtt tagcggtcat tctccaagtt tctttgactt ttgttacgag 180  
aaattaagcg cgcttatcat caactagcaa ggaagtatca cccggacaag aacggcggtg 240  
acaaccacgc ggaactgaca tttcgagaaa tatctgaagg taagtgtgg taacatgttg 300  
gcttcctgct tcttttattt cagttgttt 329

<210> 2692  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D12

<400> 2692

aggtgagcga aattcacttc cttagtaact atgcgttgtt aattttgagt ttcacattta 60  
taggaattt ctctaaaattt gacgattttc ttttattttt ttaaagttgt taaaaataaa 120  
tttcaacagg tatccaaggt tcttttata gttcttgta tttgccgtac ttgggtggga 180  
ttggttttagt cgaggggcgt ctgttttattt cgatgcccgt tcccaagttc ctcgctcagc 240  
tccttattgt gggcggtaca tacttatttc gtgcgtttct tgaagcttac aagcaagctc 300  
tgtacaacgc tcaagtaaga agcactgcag cgggagcagc aagtcaagtt ttgcgtgaag 360  
aaggaaaaat gtccgtcgaa gaagcttgc atat 394

<210> 2693  
<211> 256  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D3

<400> 2693

cgcgtcaggg gcagcgtctg cacatcctcc agacatttgc ctttggatcg ttgaagcagc 60  
ctgtacaatc gcttcataa tctacggatt acgattctca ttgcagctaa ttagacggaa 120  
ggtaggattt agagcctcaa tattaatcg gtgttagcaaa agatagttcc accaagaaca 180  
ctgaccaaga cagcatttt tcaagagatt attatgtgtg ccaaactccc agattcgtcc 240

cagttaaaca caaggc 256

<210> 2694

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D5

<400> 2694

agaaaagaagc caattcgagg tggaataacct ctgtgtttc cacagttgg tccttatggt 60

tcccttagcac aacacggatt tgcacgcaac tctatgtggc acttgaaaca aataggtaca 120

acgaaaagatg gctcagccac tggagtcgtg ttgtctttat cttcaaaaga tgtggatgct 180

gcatggacct ctgcgtggcc ttacgcctttt actgcccatt atcagttgtt attagggttt 240

caaggtctac aaaccaattt ctgggtacga aatgaaggag aggagtcctt ttctttcacg 300

tttgccttca acaactattt tcatgtatct gacgtctcta gttgtcaagt atttggattg 360

gaaaataatc cctaataaga atcgtcaaaa gaatgacgag tggaatgaac ga 412

<210> 2695

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D6

<400> 2695

gcaatatgcc tagtcataag gaacaaaata aaggaattaa aatatcagct gacggttacg 60

cactaaagtt gagcggattt cggttggacg tagacggcag tttggtcact atggggacg 120

cagacgacct cagagccctc atgttaagg aaagcctcaa ggaaaagtca aagctgcatt 180

acccaaaatt tttcaaaagc tattatgagg agaataagga ctactttat tatatgactc 240

atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgct actctgggtgg 300

gaaactcggtt tctgcagaaa tatttgaca aagtcattga gcacgaacac gcatactaaa 360

ggaaccaacg ttgttgccga taatttgccg tggttgtct gtttgcgttc tgttggg 417

<210> 2696

<211> 410

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D7

<400> 2696

aggcagctta caaatgtgag gaagccactt ccgacatTTT gcgtgatatt gccaaggaaa 60  
cgtccaaaat gttgcgaagt tttagaagaag gagaaaaaaat ttccaacctc ggTTCCAAGT 120  
ttcgagactt ggTTcaccaa tgTTTgagta ggTTcgacag tgcagTTCT gatgtgaatt 180  
ccagtgcTTT ggtgtcacga aaacgaagag aacttgaagc aatcattgac acctcattaa 240  
atgctgtctt tgtgaaacaa ctgcaggTTT tacgtgagaa tgCTTTGTCg cagttcaagg 300  
cttccttatac ttCGGAAGAG gttccgagcg attttgcgtt ctTTactGCC gacagtatgt 360  
ttgTTcgaaa agcggaaagga cccaaTTcgt cctggaagtg attggTCgtA 410

<210> 2697  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E1-D8

<400> 2697

agcccacgcg tccgcccacg cgtccggaat ggacgataag gaactaggca aaaggatATG 60  
gtatctgcgg tagAACATAT gaaagaagca gcaccgactg tttAGCAAAA acacAGCact 120  
ctgcagaaaa gagaAAATGT aaagtatAGA gtgtgcggcc tgccAAATAG tagagaagaa 180  
atcgatgaaa gtgaaAGCgA gtaAAAGATG aggtatAGAG aatggcggtc ctaactgtAA 240  
ggatccAAAG gtAGCgAAGT aaATAGACGT ttgAAAGGCGC tccAGTATGA aaggagAAAC 300  
gagtgtAGCA ctgtctAGTC gtccAACTCA gCGAAACAGC aataACTGTG AAAATGCAGT 360  
aaACGAACAG tacgacGGAN agaccgcATA attcttgact agatAGGTTT agggaggaga 420

<210> 2698  
<211> 371  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D9

<400> 2698  
gtggaaatat cccatcagct ttccaacctt ctccacgcgg tatacgagtg cgaatataacc 60  
gaggtggagt ggctacacctt ggtttgttgc tcagacactg tcgaaaacgc aatagtatgg 120  
gaagacatac tggtgcttca aggccaaaa ctgctggata tttatgctga aggattacaa 180  
ctgttcaaca agtttcgtcg tcacctgatg aacgtgtcct ttgtggaga cagcaaacta 240  
tgggattcac tatctcgttt cttgctgttt atccaaccga gtcattctac ttgttggAAC 300  
tttcgaaagt ttctcgttca acaccatcac gtttcctatc ttatggagct aaaagtggAGT 360  
gaaattgcct t 371

<210> 2699  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-053-Q1-E1-E11  
<400> 2699  
acccacgcgt ccgtgggtgt ggaacaaaag tggatcaaga aaggatgact tatggttttg 60  
ttggcgctag ttcttggttcc tggttggttt accgcaatcc tcgcaacttg gctaaatgct 120  
tcccaacaaaa ggaacataaa atttccgtc gcgcgtaccac acacacgtgt aaaactacta 180  
tactggcggt agacaagtcg tcttcttcaa ctagtaatgt tggcaagaca gaacaaagca 240  
agcctttga accgaagaag agtgaagagg caaattcctt tcaacagtcc ttttcttagca 300  
tgccttcgtat gcaaaataaac tggtttcag atccttccaa gttcaacgcAACaaagtacaag 360  
atgttagctca agacataactc catagaccta ctttc 395

<210> 2700  
<211> 347  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-053-Q1-E1-E12  
<400> 2700  
ccacgcgtca gggaaaaaaa tggtaatttta gttgaaatca attactctgg aacgtttcac 60  
aaacgttcag caagagcaaa caattatgtc agttttctgc atcttctgaa agggcaagaa 120

atccacaaca cttgcgctt tctcggata tgtccttag atatatctt cggcctgtgt 180  
ctccactta ccaaagcatt cagaggcga ctccctggag atgtttccta tgtaatttat 240  
gcatagtacg tactacaaag gatttgcag tactatgtt atgaaaataa ggaaaagagt 300  
ctgtctccctt gttcagagct attgtgtttg gcgtgcacga actgtcc 347

<210> 2701

<211> 349

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E2

<400> 2701

gcgtcagggaa aaaagaagga aagaatagt agtttgcata acaatggcca gtgatccatc 60  
gttgtttgc ttgaaagaga gtagaggaag tcattcaagc gttaaagaca gagaccgaag 120  
caactgcaga ttctacaagc aagttgcac aacaagcctt ggaacagata ttgaaagggtt 180  
ctccaacgag tctcaaagta actttggagt ccatcgaaca agcttcaaag atgacattga 240  
agcacacacctt acagaaggat ttccgtatgt cgatgcactt tatgaaaggt cacgactttt 300  
atgaaggcat tcgagcaact ttggtagata cgggtagaaa ccctaaatg 349

<210> 2702

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E3

<400> 2702

agagaaaagag gaaagggatg aaatgcagag atctctagag aaaggcaaga aagaaaagaa 60  
aggaagacac agtaaatgag gcgagaaaagc ataggaagtg aaacggatta ggaaccctgt 120  
tagtctatgc agtaaaaagaa agaatgagta agaaaaaagg gagtcattcc accagggag 180  
taaaggcgca agaaagaaac ccaaagcaat tgacggaaat cggaaaaagg ggtggatcac 240  
gtaaattaat ccgataaaacc gagaacctta cctctccaag aaggtgttgc acggctgtcg 300  
aaagaacgtg ctgtgaagtg agagaacgt a cgagaaagcc aagtgaggaa aaagagggaa 360  
gttaaaggc ggccccagaa aggagagggc gtaagacgtg atacagagta ggaagaaa 418



aggacagagc tgccacagag ctacttgtga agactgccct cgaagagcac ggactgaact 60  
ttgatccctt agatacggac aaggacctgg tatatcctga gaaatattat gagccttgt 120  
gaggcgaaat gtggatcctt gaaaaggata acacagtggt tggctgtgct gccttttgc 180  
ctattcctga tacgtgtgcg gtagagttc gaaagatgta ctttctcct agcataagag 240  
gcaacggtta tggaaagcta atacttggag ctttagagta tcgagcctt gagttggat 300  
acacataggg tagattggaa acgtcgacc ttttagaagc tgcttgcaag ctttacgaca 360  
aga 363

<210> 2706

<211> 87

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E7

<400> 2706

agcgtcaaga cagacctgcc aaagagctac gtttgaagac tgcccgcaa aatcaccgac 60  
tgcgcttga tcccctagat agcgaga 87

<210> 2707

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E1-E8

<400> 2707

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caaactttat gtgggttcta ttcactttc tattagtcaa gaagattac gcactatttt 120  
tgagcctttt gggaaagtcg tttccttgca gtttcacaag gaccctgaaa cgggacgttc 180  
acgagggttt gttttgttc aatacagaaa ccacgaagat gcgaaaaagg cattggaaca 240  
attgaatgga ctgtatctt ctggtaggcc tttaaagggtt ggtttggcaa ctgcagagac 300  
tcagaaaactt caagtaatgg gtgctattcc ttcgggagtt cctagtacaa tagctgcgaa 360  
gagcttatca ngtaggggtt atagtgcata tattagtgan atggatg 407

<210> 2708  
<211> 346  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F11

<400> 2708

ccacgcgtca aggacacgtt cggggtgaga ttggagatcc attcgtcgag gcttcggccc 60  
gtgacctaag gtcgtgacca gttataatat atttagtgca tagtaaaccc tgtgtcgtgt 120  
gcgcggtcc catgtcttat catagagatt gcgatcagta ttgggcttat gctaacctgt 180  
gacttggtag atcgcttggc gcagctgtt gactccgagg taataatcct tcactctctc 240  
cagtcggttt aacaccaccc caatatctca tcatcctcat agtcgccttg tgttacttag 300  
aacaccccca cagtggactc ctgtatcgag aaaactggtg acgacg 346

<210> 2709  
<211> 242  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F12

<400> 2709

gcgtccaccc tcacgttcgg ggttacattt ggctccact gatcgtggct gcgccccgtg 60  
tccttagggtc gtggccagct ctactagttt cactggatac tacgaccaat gtcccgtgcg 120  
cggttccat ggctttcct ggacgttgcg ttcaatgtatcg tggatgtatcct gccctggcat 180  
ttgtgagaga gcctgaagca gaatgtggaa cacgaggac gagtccgtcg ctcgctccag 240  
tc 242

<210> 2710  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F3

<400> 2710

cgcgtcaggt taacagagac aacatcgaag taatagaact ggtaagtggaa gtaatcatga 60  
atcatatcaa cgaaggaatg gagaatatac cgaacgatta catgaaggac gagatactac 120

gagaaatgat aagggtggata tatatatcga taataagtgt gacagtaata tacacgagga 180  
gaaagacagg aaagaggtgt atgatgcacg caaagaagtg acgcactaga tcagagagta 240  
acacatgcac gtacgtaaag ccaacgggtg actcaagacy tgtgaaagag tggaacaaca 300  
tgaaagcaca caagaatgta cgacatggtt acagtcacca c 341

<210> 2711  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G1

<400> 2711

aggacaatgg ttgcaaagac tgctctgagt tgcctcttc tctcttcct tatcgctgcc 60  
gcagttgcag ccgacgtagt ttcagaggag agatggggat atgctcagca aacccaacaa 120  
cagcaacagt gccaacaagt atgtaaacag tatgcatact atcagagtcc agtctgcact 180  
tccgtAACCA cacagagccc atactggacc caatgctcga agactgtgca aacctttgtc 240  
ccaaggccagt gcagtactta taccatatct cctacatgga cctattgcag cacctacacc 300  
accactagcg taccatctca atgcagcaag gccgtgacta cctatactca aacctgctgt 360  
gcttatgccc acaaaaacttc ctatgcagtc agtaccgagc aatatgttca ggaaac 416

<210> 2712  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E1-G12

<400> 2712

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ccgtttcagg cttccatat ttaagatctt tttgattgt tattgttgcattctggta 120  
cctctttct ctcctgaaag cacgaaaaa cagtcacaa ggtatgcctcg ttattgacaa 180  
gctcttattg cagaagcttc tctggccta gcttcctt cgtattgcgt tctacaagag 240  
tagtgacgga taaaaggatt tatattgtct tggattgttgcattt cgtcgtagg 300

aactttccc gctccatat ttgtcgatag cgctggttc atctcgagag tagttcctgg 360  
tttggttgaa gactcgactt ggggttgtct tcatgatgta ngaaatctgg t 411

<210> 2713  
<211> 126  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G2

<400> 2713

gcgtcagtga aacaaacttt gcgaacggtt gtaggagtgc atacgacaca cacaggagta 60  
tgctttcctg ttttgtatac tgaattgagt atacctagtg tagaatcact tagagaagaa 120  
cgccgg 126

<210> 2714  
<211> 288  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G6

<400> 2714

agcggacgacg tggcggacg cgtggcgga cgcgtggcg aggatcgaat gcagacgctg 60  
tagtttgcgt attgtttcggt gttttgtcaa gcttgtctca gtaataaaaaa gtgacatttt 120  
tagttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg aaggcagcaa aaaaggataa 240  
aaaacttacg ttaacgtgaa tgaaaattta aaaagctttt ttaaagg 288

<210> 2715  
<211> 417  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E1-H3

<400> 2715

agccccacgacg tccggggcaa ccaactacca ccaaaagtag caactgcaag gaagaacaga 60  
gtgtccctaaa gaatagcaag ttgtgtatgag gagaattgg agcaaactct tgtcttattc 120

cgccaatgaa gtaaaacttc gggatgttgc ttcttctcta agggagacga gtaaagcgac 180  
gggtcttcc atccggagtt ggcttcgtga tatcaaccag tggtatgaag acacttacta 240  
taaaaaggaa aaggtggatc ctttggtaca ttatatgtta ctttggggata 300  
taccatcaat tactcccata tcaaacataa agtgagcat aagaatgacg atattgaaag 360  
cttgttaaag tcancnttgc tgtgttgcgg tgcgttgcgc cgcatacgat 417

<210> 2716

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-H6

<400> 2716

agccaaaagt ttcaaaactgt gttgttatga ctatgccatt ttgctttgtt tttgatacga 60  
cttttaagtt ttcaaaaatt ctttatcgaa ggtcttctac cgacctatgt aaacccaagc 120  
accgttcgtc tccattgaaa cacaataccc aagcggtt cttcaaggag accgaaaaga 180  
caaagtctac agaacctgtt aatgttacca gcgcctccaa ctcaactca aagtcggtca 240  
catttgacgg acagttaat aagtctgtt ctaatacatc tccacgaacc aatatatctc 300  
tggactctgc aaagttaaag gagtactctt cgaagttctt caacgatatt tctttgcgac 360  
ccgggttcta cggtaactg gcactagctg gtcttagttgg aatcatttgc atacagataa 420

<210> 2717

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-H8

<400> 2717

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tgcaaagcgc tctcgaggc gtatgcacag ggatagccag aaaactagcg aggaattctt 120  
aaatctcaag gagtatgttga aggagtagtg taaataagcg cagggtgcta tttgagtagt 180  
aaaatgtaaa ccgcgtgtct tttgcacat gtcacagctt gtgataggtt aagcagatag 240  
cattggctca gacgttagcca tgtaacaccc gatactactt gatcttatgc tgtccaaacg 300

acgtaaagct ggaccagtat ctgtgagaac agatttggca gagatggcat aatgggt 357

<210> 2718

<211> 350

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A10

<400> 2718

atggaaagaa tcgctcagga aagagttatt ctttgcata ttcgggttct ctgggtgcgg 60

acgtacatag aactttactt tatggtggtt tattttggta tcctggagat aagaagaatc 120

ctaattggcaa gttgcgactg ctttatgaat gtgctccgat gagttatttgc attgaacaag 180

ccgggtggaaa agctaccaac ggaaaacaac gtattttggta ttcgttcca aacacgaccc 240

atgaacgaca gcctcttatt ttaggttcgg aagaagacgt cgatgagtttgc atgcaactct 300

acgcagccaa gttgcaaagt aaagtcttagt tgtgtctctt gtttgtgatg 350

<210> 2719

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A11

<400> 2719

ctgcccacgc gtccgcattgg acctatttgcac gcacccatcac caccacttgcgttcc 60

aatgcagcaa ggccgtgact acctatactc aaacctgctg tgcttatgcc caacaaactt 120

cctatgcagt cagtaccgag caatatgttc aggaaactgt atctgctcaa tataacttctt 180

actacggcgaa atcatcctcc agctatttattt accgaggcagc tgctccctcag agatggatgt 240

aggaacaatg cacctcatac tgctgggttc cagtagcagac ctatgaaact tatcaatgtt 300

ctcaagagaa gaagaaggag tacagctatc cttgtcaaact ttatgagcag gtttcaacta 360

cttaccaggc tggtcagttac gagtccaaac aagtttacta ccaatgccaa aa 412

<210> 2720

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A2  
<400> 2720

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gaagaagaat cgacagaaaa tcatcatggc aagccttggt aacgtcgaaa gacggcagat 120  
agtagtaata gtagtagtag taacaatagt agcactagtc aaaaaggtcc tagtacgagt 180  
gttttggac atgttggc atccgatggc caagcaaaga aaagagggga ttgttggggtt 240  
gatgaagaag agacttggga agagaatact cataataata atgaagatga tgacgatgaa 300  
tggaaagagt ctgaacaaca accagaagaa aagcgttt 338

<210> 2721  
<211> 208  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A3  
<400> 2721

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ttctgtaaat ctctccattg agagtcgaaa gactcggtt tgtagcattc ttcaacttgt 120  
gataacaacat tggaggaag tgcgcctaag tttgcattcg aaaataacat acaagtccgt 180  
gtcataatac gtgtgttagca agcgttt 208

<210> 2722  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E2-A6  
<400> 2722

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aagacaaact ggagctatat ggtaacttta aacaagccaa ggagggtgat tgctccaccg 120  
aaaaacccaa aggtctttt aatcaaaaag aaaaagccaa gtgggacgcc tggaattcca 180  
aaaaaggtat ttccaaagaa gaagcacaga aaaagtatat cgaaaaggc gatcaactat 240

gcggcacgca gtttcttcaa agcgttcct agtcaccta ggtccttgct ctttttttgg 300  
tttgtcggtc ctaattccca aaaaatatga gtaaaagtacc cgttttttc cgcaaaaaaa 360  
aaaaataaaaa cagaaaaaaga aaccaatgta atctaaacaa taaaanaaaan aatgaataag 420

<210> 2723  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-A7  
  
<400> 2723

aggccacaac caaactttt tattgtttt gattgtatg gtgtacttgt aaactcgaa 60  
ccttattctt gtgagtcct tcgacaagct attcttcgag ctatggcgt ggatatccca 120  
cacgagttc caaacgacta ttttgaagtg tttggctat ctgtctattc ttccattgaa 180  
tattatgtga aaaaggaaat tctacccgaa aacacagata tcgatgggt ggctagaaaa 240  
gtgaatgagt tgaaggatcc aatataatgaa gaatttagcaa gaggaaagtt atcaacttt 300  
cctggattga aggctttct tgaggaagct tgtgcgaaaa aggttgcct aggtgttgg 360  
tcttctggaa caccggagaa gattcgaatc aatctaaaac aagcaggcaa tccttccaa 420  
ttc 423

<210> 2724  
<211> 364  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-A8  
  
<400> 2724

agcccacgca tccggtttga ttggcgttg gaagcagttg tagactttt catgatgtgg 60  
tgggtgtctg ctgggtctt gagtgtatg ataccgaaac ctactgcctt gttcagcgg 120  
agatatggtt ttggtttggaa agtttagtatg attgcagcct ttacctggtt gaactttgg 180  
tttcaactta tcgaagtcta tttgtctatt ttgacgatat atgttggata gcgcaagcta 240  
gtccataactg aagaagatga agacgctgac tatgagggcg ctgatgctca ttcggtttgg 300  
tcggaaagga gtccctacaa gtctgtttgt gtgtgtgt ggtctcgaca tgtgggtgta 360

cttc

364

<210> 2725  
<211> 87  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B11

<400> 2725

cgctcatgctccgctcaac gacgtactga gactcactca ttttctcttt gttttgtctt . 60  
tttgtggctgt cctcctcgctc gctcacg 87

<210> 2726  
<211> 223  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E2-B2

<400> 2726

acgcaatata tcaacaagtgc acagctgcac attagtaaag cgaacgggtg agttaagatg 60  
cgtgaacaag tgacggaata tatcacacag aaagattaag aaatggtagt agtacaaagc 120  
ataaggtagt aaaagcagga atctgatatg agganagcca cattggcact gacattatgc 180  
ccaaacatca cacgtcatca ctggggaca ttgggcaatg tac 223

<210> 2727  
<211> 184  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B4

<400> 2727

acgcgtcaac aaggactttg tactccttgt tacttgtgc ccgggtgcaag ataagcttgt 60  
tgaaaagtac tggctccgatgtatagaatc gtacgcggaa tagccggctc caacagcgg 120  
acacacaacc aaaatagttt attggcgtgt ctggaaattt ggtcaaaaag gcctgtacgc 180  
gaca 184

<210> 2728  
<211> 100  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B6

<400> 2728

gtcaaccaac tcaccaagat gaacttgtaa tccatcactg gcagatcatc tttccgatct 60  
aacgtccatt ctttcttat ccacaaacaa aactctcgga 100

<210> 2729  
<211> 72  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B8

<400> 2729

gacccaaacg tcagcccacg cgtctgaaga aactaacaaa aaaagaaaaac cgaaacccaa 60  
tcgcacaaac aa .72

<210> 2730  
<211> 444  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C10

<400> 2730

ggtcgagcac gcgtccaccc acacgtccgc ccacgcgtcc gcccacgcgt ccggatgctc 60  
attccaagag atcgtaaaa agcaacaaa ctgcgagcca agagagcaac gaggaagatg 120  
gtggagaaga tggtattcaa agcaatactg tggagaccga ggtgttacct ccaggtggtt 180  
taggcaatgc taatctcgat gagttggctg aaaatgctgc aaagagtctc gtcataagta 240  
ggacggaaag cgccaaacag tcccaagatg gaggcggtga agcggatgaa aacttggaaat 300  
ggtgtgcgga cacatcaaaa gaagcaatta aggcaaggca agcggaaagct gcagcagctg 360  
caaaggttt ggaaggttt acggattcga agaagaagaa gaacgtcaat gttcctgtgg 420  
agaatgacaa ggaagtggaa aaag 444

<210> 2731  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E2-C12

<400> 2731

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agaaaagaaaa gaaaggaaga cacagtaaat gaggcgagaa agcatangaa gtgaaaacgga 120  
ttaggaaccc gtgttagtcta tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcat 180  
tccaccaggg gagtaaaggc gcaagaaaaga aacccaaagc aattgacggg aatcggaaaa 240  
aggggtggat cacgtaaatt aatccgatat aaaccgagaa ctttacctct ccaagaaggt 300  
gttgcacggc tgtcgaaaga acgtgctgtg aagttagaga acgtacgaga aagccaagtg 360  
aggaaaagaa ggcaagtaga gggcgccccg agaaagagga aaggatgaa atgcagagat 420  
ctct 424

<210> 2732  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C3

<400> 2732

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gaaagtgcata cttagaaga gatatctttt agttcgaaa ctacaggaat ggtgttagtcg 120  
ggtatggtc ctgattcaag agtatttagt agaaatgctc gaaagttgc tcaaagttac 180  
tatcatacct atcaagagcc catatcaactc gttcaacttg tacgacaaac agcgttcg 240  
atgcgagaat tcacccaaatc tggtggcgta aggctttt gttaaatggatagct 300  
ggttgccatt ttttggacc acacctgtat caggtcgatc ctatggaaat cttc 354

<210> 2733  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C6

<400> 2733

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agcttatatg tctgacgcta ctgtacgctc tctatattgc gtgaaaatgt tgttctacct 120  
tacaatactt gcgttctcta tcactattgt gggtcttatg ggttaagagtt ccgacggtat 180  
ttgggttcac agtgttccag cgaaagacga atattgtca tacaagtctt cccttcaagt 240  
aaaccaccac ggcatalogt cctattgcaa gtatcatg gctgtacgat ctattggttt 300  
ggttacgc ttcttcgagt tttggatgc attcctcgga attttcttca agtggcaaca 360  
aaagttgtgg tatattgaat ctgctatcaa cgtgttttc tgggcttggt ggtt 414

<210> 2734

<211> 251

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C7

<400> 2734

acccaagcgt cagctcaactc tgtccggata ttgccatatgg aatgctgaac ctgtacagag 60  
gcaggttagga tcataccgta ttgatctatc acgtccatat tgtctcaagt tacctggaaa 120  
ctgttggctt accttacaat aattgcgggg tcgatcacta ttgttaggtca tatcgctacg 180  
acttccgacg gtatggctg ttacactgtt ccagcgattc gacgattatt ctgcatacaa 240  
ctcttccctt c 251

<210> 2735

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C8

<400> 2735

cccacgcgtc cgccccacgcg tccgaaatat tcgtagaatg gaacaaatat tgttggagag 60  
tcaaaaacaaa gcgcttggac aggtgaaaaa gggagccttg tctataaggt cgttgaacca 120  
cgtttccctt tctgtacccg aaccagtgaa gacgggcaag ttctttgcg agattcttgg 180

cttcgagtg gttcgacgac ccaactcaa tttgacggt atatggtgt acagttatgg 240  
tattcaaata caccttatcg aaggtgctgc tctcgaaaga ccaaatatct tgaaaccaa 300  
cacagaccat atatcttcg aagcggatga cctcacaagt atacagaata aattggacac 360  
ttaaatatt ccgtatctt tggagtatca cgaacggag aacttgagac agctgttc 418

<210> 2736

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D1

<400> 2736

agcgacacgg tttcttgtc ctctaagcgt ttgccttgc atcggtgtgg gaagaagcac 60  
actagcttc ctagtcgtca ctttcgata ttgcgtcaac ctattagaac aaagatggga 120  
ctcaaggacc aagtgttcaa catgttggc agaggatatg aacccaaaga cagagaacaa 180  
gccatcatcc cttctgggaa acattatgtt ttgaaaactc ccctagttgc caactttgaa 240  
gagatggat ataaatatgc catgttggaa ctcgggtt tctggggagc tgaacgtaaag 300  
ttttggcaaa ccaaagggtt ttattctaca gctgtcggtt atgct 345

<210> 2737

<211> 395

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D5

<400> 2737

agaaagaagc caattcgagg tggataacct ctgtgtttc cacagttgg tcctttaggt 60  
tccctagcac aacacggatt tgcacgcaac tctatgtggc acttggaaaca aataggtaa 120  
acgaaagatg gctcagccac tggagtcgtg ttgtctttat cttcaaaaga tgtggatgct 180  
gcatggacct ctgcgtggcc ttacgctttt actgccccat atcagttgtt attagggttt 240  
caaggctac aaaccaattt ctgggtacga aatgaaggag aggagtcctt ttcttcacg 300  
tttgccttcc acaactattt tgatgtatct gacgtctcta gttgtcaagt atttggattt 360  
gaaaatattt cctattatga tcgtcgaaag aatga 395

<210> 2738  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D6

<400> 2738

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cactaaagtt gagcggttatt cggttggacg tagacggcag tttggtcact atgggtggacg 120  
cagacgacct cagagccctc atgttaagg aaagcctcaa ggaaaagtca aagctgcatg 180  
acccaaaatt tttcaaaagc tattatgagg agaataagga ctactttat tatatgactc 240  
atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgct actctggtg 300  
gaaactcggt tctgcagaaa tatttggaca aagtcattga gcacgaacac gcatactaag 360  
ggaaaacaacg ttgttgctga tagtttgcg 389

<210> 2739  
<211> 397  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D7

<400> 2739

gcagcttaca aatgtgagga agccacttcc gacatttgc gtgatattgc caaggaaacg 60  
tccaaaatgt tgcaagttt agaagaagga gaaaaaattt ccaacctcgg ttccaagttt 120  
cgagacttgg ttccaccaatg tttgagtagg ttgcacagtg cagtttctga tgtgaattcc 180  
agtgcattgg tgtcacgaaa acgaagagaa ctgaaagcaa tcattgacac ctcattaaat 240  
gctgtctttg tgaaacaact gcaggttttgcgtgagaatg ctttgcgcgttcaaggct 300  
tccttatctt cgaaagaggt tccgagcgat tttgcgttct ttactgccga cagttatgttt 360  
gttcgagaag cgaaagactc cattcgtcct ggaagtgc 397

<210> 2740  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E1

<400> 2740

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tttgcttggaa agagagttaga ggaagtcatt caagcgttaa agaaagagac cgaagcaact 120  
gcagattcta caagcaagtt tgccacaacaa gccttggAAC aaatattgaa aggttctcca 180  
acgagtctca aagtaacttt ggagtccatc gaacaagctt cacagatgac attgaaacaa 240  
accttacaaa aagatttccg tatgtcgatc cactttatga aaggtcacga cttttatgaa 300  
ggcattcgag caacttttgtt agataaggat agaaacccta aatggcaacc ggacaagttg 360  
gaacaagtaa ctagagcaac tgtagaagaa tac 393

<210> 2741

<211> 443

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E11

<400> 2741

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gatgacttat ggtttgttg gcgcgtatc ttgttcctgt ttgggttacc gcattcctcg 120  
caacttggct aaatgcttct caacaaagga acataaaatt ttccgtcgcg ctaccacata 180  
cacgtgtaat actactatac tggcggtaga caagtcgtct tcttcaacta gtaatgttgg 240  
caagactgaa caaatcaagc ctttgaacc gaagaagagt gaagacgcaa attcctttca 300  
acagtccttt tctagcatgc cttcgatgca aaataactgg tttcagatc cttcgaagtt 360  
caacgccaaa gtacaagatg tagctcagga catactccat atacctactt tctatgccca 420  
gttgcttagca gctactgttg gta 443

<210> 2742

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E12

<400> 2742

cgtaaggaa aaaaagtggt aattagttg aaatcaatta ctctggaacg tttcacaaac 60  
gttcagcaag agcaaacaat tatgtcagtt ttctgcacatct tctgaaaggg caagaaatcc 120  
acaacacttg cgctttctc ggcataatgtc cttgagatat atcttcggc ctgtgtctcc 180  
actttaccaa agcattcaga ggccgactcc ttggagatgt ttcctatgta atttatgcat 240  
agtaggtact aaaaaggatt tgtcagttact atgttgatga aaataaggaa aagagtctgt 300  
ctccttgttc agagctattg tgtttggcgt gcaggaactg tcgaaagctt catgataata 360  
tgtgttttg tgtccaaaac aatggagctg cctttggata gcagaaatgc aagtgctgct 420  
gccgtttg 428

<210> 2743  
<211> 274  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E2-E3

<400> 2743

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aaaggaagac acagtaaatg aggcgagaaa gcatangaag tgaaacggat tangaaccgg 120  
tgtagtctat gcagtaaaag agagaatgag taagaaaaaa gggagtcatt ccaccagggg 180  
agtaaangcg caagaaagaa accanagcaa ttgacggaa tcggaaaaag gggtgatca 240  
cgtaaattaa tccgataaac cgaaaacctt acct 274

<210> 2744  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E5

<400> 2744

agttgggttg tccactggtc atggaggaag aagcgttatt caagtaagca ggttgtcttg 60  
tggttgtat atcacagaga atttctagtt atgtgaatca acattcgaa gaatatataac 120  
accgtttgag ggaagccgtt gctctggatt cagtttagttc ggatccaat aaacgctcgc 180  
gttgcttggaa tatggccaac tatatttgca aatggatcga aaaattggaa gggaaagccta 240

ttgttaaagca tataggcaaa caaacgttgc ctgatggcca agttttggac tatacctccca 300  
tcctatttgg agactttact gtggacacca aggagaaaacc agtgctcttgc gcctattgtc 360  
attacgacgt caaacacctgca gatataccaag a 391

<210> 2745  
<211> 374  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E7  
<400> 2745

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tgtggttgtg atatcacaga gaatttcttag ttatgtaat caacattcgg aagaatataat 120  
acaccgtttg agggaaagccg ttgctctgga ttcaagttgt tcggatccca ataaacgctc 180  
gcgttgcttg gatatggcca actatatttgc caaatggatc gaaaaattgg gaggaaagcc 240  
tattgtaaag catataggca aacaaacgtt tcctgatggc caagttttgg actatcctcc 300  
catcctattt ggagacttta ctgtggacaa caaggagaaa ccagtgtct tggcctatttgc 360  
tcattacgac gtcc 374

<210> 2746  
<211> 337  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F10  
<400> 2746

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ttcggttttgt tactttttgt cgtacaagt tataatataa aatggccaaa gtaaaccctg 120  
tgtcgccggc tcctaaacta agtgtaacta gagagatagc tatcggtatt gggcttggta 180  
tagcgtgtgc tatggatattt cgccagtggc atctcgata cacggaaatg ataagaaaat 240  
attatcgccga gttggatgag caagaacaga gttcctcgtc gtcgtgaaaa ccgccttggta 300  
tttggatgat agcaataaaag tggactcttgc ttccat 337

<210> 2747  
<211> 267  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F3

<400> 2747

aggttatgtt agaaaagatg gaagtaatac acatggtaag tggactaata ctgaatcata 60  
tgacagaagg aatggagaat ataaggaagg attacatgaa ggaggagatt atacgagaaa 120  
tgataaggc gatatatata tcgataataa gtgtgatagt tatataaagg aggacaaaga 180  
gacgaaagag gtgtacgatg caagctaaga agtgacccac tagatcagag agtaacacat 240  
gcaagtacgt acagcgaacg ggtgagt 267

<210> 2748  
<211> 129  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F7

<400> 2748

ttgcatcgtc tgctctgagt tgcctcttc gctttcct tatcgctgcc gcagttgcc 60  
gcccgtcgt ttcataggag agatggggat atgcgcagca gggccagcac cagcaacagt 120  
gccacaacaag 129

<210> 2749  
<211> 431  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-053-Q1-E2-G12

<400> 2749

gcgtccacat ctacagagag tagcaatacg aaccgacaac ctttcctcgg cttgccttct 60  
tctcagtccg tttcaggctt tccatattta agatctttt tgattttat tggtgctatt 120  
ctgggtaccc ttttctctc ctggaaagcac gaaaaacag tccacaagga tgctccgtta 180  
ttgacaagct cttattgcag aagttctct gggcttagct ttcccttcgtt attcgttct 240

acaagagtag tgacggataa aggtatttat attgtcttgc ttgcttgc t aagtttcgt 300  
cgtaggaac tttcccgct tccatatttgc tcgatagcgc tggtttcatc tcgagagtag 360  
ttcctggttt ggttgaagac tcgacttggg gttgtttca t gatgtanga aatctggtc 420  
ttatgcctgg a 431

<210> 2750  
<211> 304  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G6  
<400> 2750

gcgtcagcgg acgcgtggc ggacgcgtgg gcggacgcgt gggcgaggat cgaatgcaga 60  
cgctgttagtt ttgtgattgt ttcgtgtttt gtcaagcttgc tctcagtaat aaaaagtgcac 120  
attttttagtt gaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaa 180  
aaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaa aaaggaggc cgcccaaag 240  
gttaaaaaaac ttacgtatca cgtcatgaa atttcaaaac ttttttaaag ggtaaaacaa 300  
tttc 304

<210> 2751  
<211> 139  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G7  
<400> 2751

acccaagcgt ccgcccacgc gtccgatgga ggtaaactgg tttgggttg gaggatcgag 60  
tgcagaagct gtagtttgtt gattgtttcg tttttgtca tgcttgc tca agtggggaaa 120  
ggtgatattt gtagttgag 139

<210> 2752  
<211> 69  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G8

<400> 2752  
ccacgcgtca gcccacgcgt ccggactagt tctgtattga ttggctctac gtctgccaat 60  
agttttggt 69

<210> 2753  
<211> 235  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H1  
  
<400> 2753  
  
ggtctagaat tacgggccga gcacgcgtca gggagaatgg aagaggagga ggacgctgcg 60  
tattattcac aaatagataa ggaagtagtc gagtctatgg aagttccga gagtgtttct 120  
gggtttcctg cagagacgga gaagccttat agaataccaa actttacacc attgactcaa 180  
gacgactttg acgaagactt gtggtttcc atggaataaa agtatagttt ttgt 235

<210> 2754  
<211> 326  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H11  
  
<400> 2754  
  
ggccgacgcc cgcggtccagg caagaaacac gcaaatactg gaaagcagtc atcgatgatc 60  
gagaacggaa caaactgact atcacgaaga aaagatggag tagatcagga ccgaaagctc 120  
acggaagtca gagtaagcgc aggagtcatc ttaatgaaag cagggaaagtc attgctcaag 180  
agagtgtaca cctcgtaact tttgcaaat ctcacaacga gtgaaagagg aagccagaag 240  
attgcatcac cagtagccag gtaacacccg aagctacttg atcatatgct gtccatgcga 300  
actactgctg aatcaatacc tgtgga 326

<210> 2755  
<211> 276  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H2

<400> 2755

acgcgtcagc ccaaggcgtcc gggaaaacaa cgtggaaact atcgacagaa ccaacttaag 60  
tgtacctcca atagtgtctg aacgtatggg aaagcgtatg ttgtatgctg ccagtgttcc 120  
tctcaccttt tttgttctcc ttttggttc cctattcgtg gcaaagttc agtttgata 180  
tacttttagt ccatcggtag tagcgtatag ttcgttggc cttattttt gtaccatggc 240  
agcactgagt tatggtattt tttccgcctc gtggga 276

<210> 2756

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H3

<400> 2756

cccacgcgtc cggggcaacc aactaccacc aaaagtagca actgcaagga ataacagagt 60  
gtcctaaaga atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg 120  
gcaatgaagt aaaacttcgg gatgttggc cttctctaag ggagacgagt aaagcgacgg 180  
ggtcttccat ccggagttgg ctccgtata tcaaccagtg gtatgaagac acttactata 240  
aaaagggaaa ggtggatcct ttggtagatt atatgttact ttgtttggc ctggatata 300  
ccatcaatta ctcccatatc aaacataaaag tggagcataa gaatgacgat attgaaagct 360  
tgtaaaggc accttggcgt gttgtggtag tggctgacgc atagttggc atatagga 418

<210> 2757

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E2-H4

<400> 2757

cattgtttagt gagaccgagg ttaataggga catgaagaca aggaaacctg ttctctttcg 60  
gggtccagat ggtcgccctac atcgagac ttttatcgga ccgaaaaagc cacatactca 120  
aataacaatt agagagattt acattggAAC ttAAAGCAT agttcgagcg acccaaATCT 180  
atccgtttagg agaaaaaaagg cggttagaaaa cttcaataag caagtgtatgc gcggcgatat 240

cgatgaatgg agtttgagga acctcgctta cactaccgat gatattcaag gctatgagtc 300  
agattctgac gaggcatccg antattcaag taatgtcaat cagcactctc attcttatgc 360  
aactgcgtcc aacagt 376

<210> 2758  
<211> 95  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H6  
  
<400> 2758  
  
gaccaagcgt cagccccacag tttcaaactg tggtgttatg acgtgccat tttgcattgt 60  
acttgctacg acttttaagt tttcacaaat tcctt 95

<210> 2759  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H7  
  
<400> 2759  
  
gacccacaga cgtcagcgga cgcgtggct aagctattac ttgtacaaga ggaacgtaat 60  
ggattgacca agtgtgagaa gcaaagtcaa tgAACAGGA agaggAAAGG cgaacacagt 120  
agcgaataaa tctatagtag aaagcagtaa ggAAATGAGT actgtgcattg aggacaggaa 180  
agtatttgaa gaatagagtg taaAGCGCT agctttgca taatgtccc tcgagtgaaa 240  
gaagatgcaa taagaaagaa aaagaagtat ccatttaaga cccgaagcta gttgatctta 300  
tgctgtcgaa gcgacataag gctgacccag tatctgtgga aaatgatttA gaagagatgg 360  
cataaggggt gacatgccaa tgacagctag tgatatctgg gacaccgcta aagc 414

<210> 2760  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-053-Q1-E2-H8  
  
<400> 2760

agcggacgca tgggctgacc catgggctgt acgataggtt gatcaggat cgatcacggg 60  
tgcaaaacgc cctcaaaggc gcaggcactt gaaaagcgag aaaagttagcg aagaaatcta 120  
aaatagcaag gagtaagaga aggactaatg taaatgaacg caggatacta tttgagtaat 180  
acagtgtaaa ccgcataacct tttgcataat gtcccagcga gtgaaagacg acgcaaaatc 240  
aactaatgga atgtggccag gtacgcctag actcccgatg atattcaacg gtacgagtca 300  
gattctgact aagcatccga taattcaagt aatgtcaatc agcactctca ttcttatgca 360  
actgc 365

<210> 2761  
<211> 373  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A1  
<400> 2761

cggaaaaagg ggtggatcac gtaaattaat ccgatataaa ccgagaacct tacctctcca 60  
agaaggtgtt gcacggctgt cgaaagaacg tgctgtgaag tgagagaacg tacgagaaag 120  
ccaagtgagg aaaaagaaggc aagtagaggg cggcccgaga aaggagaggg cgtaagacgt 180  
gatacagagt aggaagaaaa gagaagagag ctagaaagga ggtaaaagaa gagtaaaagg 240  
actagaagag gtacggaatt cacgaggaag gagcgtgaag gaaggaggg tcccaagtaa 300  
tcgaggaaga aaaagcttcg gtgaaagcgt gaacggattt tgtacacact gccccgtcaag 360  
ttctggaagt gtg 373

<210> 2762  
<211> 332  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A3  
<400> 2762

gcacgcgtcc gagggcgtaa gacgtgatac agagtacgaa gaacagacaa gatagctaca 60  
aaggaagtac aagaagacta taacgactag aagacgtacc gaattcacga cgaaggaccg 120  
tgaaggaagg aggaatccca agtaatcgag gaagaaaaag cttcggtgaa agcgtgaacg 180

gattttgtac acactgcccg tcaagttctg gaagtgtgct aagaataagc aggagaagta 240  
taagagagta tgaaaagaag aaaggaagtg aagacgtaag acgtaaaaaa aaagcgtaag 300  
acgtgataca gacttaggaag aaaagagaag ag 332

<210> 2763  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A8  
<400> 2763

gcgccgtcgt ggtgttttc gattcttgc ggcagtgttgggtgagaata gtaaaacatg 60  
acgagatatt ccaaggaacc agataacccg acgaaaactt gcaaagctcg tgcttcggat 120  
attcgcgtgc actttaaaaa cacgcgagag acgggacgtg ctttgaagg aatgagctt 180  
cagagagcaa aaacttattt gaaaaacgtg atagagaaaa aagagattgt accctttgtt 240  
cgctatcggtt atgggtttgg tagaaaagca caagccaaac aacacggttt tcccaacgga 300  
agatggccga agaagagtgc gttggattt ttggacttgt tgaagaacgc agagtccaaat 360  
g 361

<210> 2764  
<211> 364  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B11  
<400> 2764

cggaaaggagt agaagaaaaag agagagaaga aagaaaaagaa gagaaaaagcc gtactgaaga 60  
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120  
gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcacccactg 180  
tttagcaaaa acacagcact ctgcagaaaa gaggtgtatg atgcaggcaa agaagtgacg 240  
cagtagatca gagagtaaca catgcaagta ggtaaagcga acgggtgagt aaagaggtgt 300  
gaaagagtgg aagaacatga aagcacagaa gaatgttaaga aatggtaga gtaaaaacca 360  
taaa 364

<210> 2765  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E1-B12

<400> 2765

agacgaaaag caaattcccg cgcctattcg ttcagaaaca actttagaag atgaacttgt 60  
cttagatgca ccagcacaaa agacattaaa ctatataaa gtagataatt atactttgg 120  
cacgaagcag tcatcccaa aacaacacga aagaaatcca cagcgttaa aggaaaaata 180  
tcaagaaagg ggtttgaggc actctgtgc aggagtactt cttgtacatc accatcgaca 240  
tccgcacgtt cttgtattac aacaaaccaa ggactctgga agttttggc ttcatgntgg 300  
gcgtttggcg tccaagtgaa ggtgactttg gagggttatac gaggaaactt agatatcgct 360  
taaggagtcn ctcacaagag aagg 384

<210> 2766  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B2

<400> 2766

agcgacaaca accatcagaa caaagttgg ttggttccgc accgttatta cctcatcgac 60  
cagaacagca gtatgtaaa aacacaggaa aaccaagaag aagagttgc aaggaatcaa 120  
cgaaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gataaggaga 180  
tttggagaaga agaggaaatc ttcaatttac tagaagctt tagaaagtat tttccagaac 240  
caccgagcaa tttgagagct caagaaataa ttgaagtagg tattgcata ccttggctt 300  
tgaataattc acaggagaaa gagtaggtct ggttagttct ttacggagaa agaacagtgg 360  
gagctgtggg aaaacgtttt g 381

<210> 2767  
<211> 360  
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-B3

<400> 2767

cccacgcgtc cgatataata tggaatcctg gaaggtttga tgacgaccgt tcatgcaact 60  
actgccaccc aaaagacagt agatggacct tctcacaagg attggagagg aggaagagga 120  
attttaata acattattcc atcttctact ggagcagcca aggctgttgg taaagttatt 180  
cctgaactga atggcaagtt gacgggtatg gcttccgtg ttccttgtcc ggatgttct 240  
gtcgatcgatg tcactttcg tttaaagacn acaaccactt atgacgattt caaggcaacg 300  
atgaaaagctg cgtcagaaag caaagcttta aaggaaatat tggcatatac cgaagatatg 360

<210> 2768

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B4

<400> 2768

caacatcatc aaatgc当地 gggagggaaag aaagattctt caaagaaaaga agccacaagt 60  
aaacctgc当地 cagcagatgc tacaaagacg acagaaaagt ctggccggag agccaagttt 120  
aaggaaactg gtgcaaagaa acaatacaaa gttgactatg catgtc当地 cctgttatgt 180  
tttgc当地 ttgttgc当地 gttccagct attctttgg tagtgaataa agagaaaattt 240  
ttttatattt aaaaaatttc gttaaagac acaaaccact tatgacgatt tcaaggcaac 300  
caaggaaagc tgc当地 caaag atcaaagctt taataggaat attggc 346

<210> 2769

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B5

<400> 2769

gaaataataa aagagagaga gcaacgacga caaagaaaat gaggttattt caacgttgga 60  
aaagaatttg caactatttc atctactcgc aatactctag tcgaccgaat agtttatttc 120

aagcagaccc taggaaatat aatatataatt tacagcatcg agtggagaaa cacctagttg 180  
cccattctat gttgcagca tccctacata atcctcgctg tcttacaagt tcttcatcat 240  
aacaacaaca ttggaaccaa gtacacaaaa caacaacaac accaagtgtg gataatcatc 300  
ctagtcgtga agaagaaaag agtttgtac tcgttcctgg tcaagagaca aaagaagaac 360  
aaggagccaa gcgcacag 377

<210> 2770  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-B6  
  
<400> 2770

atcggttgc agatatgcaa actccctcg cattctcttg ttggacaccg ttgcagcgaa 60  
cttcaagaa cgtagttgc tcgtcttagtt tttgcaaaaa tagctctatt ccgttccatg 120  
ctaccaacag aaggagttgt gttttccgc tgtcttttt tggagcgcct gtcgttagtt 180  
ataagtggga agtggctgca aacctgcagc gaaggcagtt tggttcagtt tccatggagg 240  
tacgtgtga cgtacgtgaa ggtgaaccta tcgattctgc tatagcaagg tttcggagag 300  
aagttagcaa aagtggtcac ttgtttgagc tgaaaagacg acaagagttt gaacctaata 360  
gtgtgaagcg acaaagatca aggaaacaag ctcta 395

<210> 2771  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-B8  
  
<400> 2771

cggacgcgtg ggcggacgacg tgggtttcc caacagaaaa tatacacaaa cagtataat 60  
ctagaagaat acaatcaact tgagaaaaaa attcaagtaa tcacaacttg catctctatc 120  
tcatatcatc tttctatcat ggaccaagtc gatgcattct atgcattgtt gttgtgtgc 180  
ttccttagaaa aacttgtga gagtgctatg aactgtttgc caataaagac gacaacggag 240  
gtgcaatgcc catttattgg ttggagatcc aagcgctgtt ttctgccaac gtacaaagga 300

taagcgtcca tagcaactat atatggcact tgcagctaca atgtatgcaa tgttagtgaaa 360  
aacacggggtg gattgc 376

<210> 2772  
<211> 340  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B9

<400> 2772

tgatgagctg ttccaacggc aaaagagaaaa cgagctctag tgcaacactg aatgaccttt 60  
aaggcttgat tttccgatt atcataactaa acgctgatt tacacacaac tcacgagaaa 120  
ttgatattag agtcgacgag aaagaaaacat attgagaact gatgttaatc tgtctagctg 180  
ttggcaataa gacaagctac ggcgtcttc caagttctt tcaactctta taaacaaaac 240  
aagtaaaaacg cctattcact actggtaaag tctttcttt cgataaaaaaa aaaaaaaaaaa 300  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaggg 340

<210> 2773  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C2

<400> 2773

cccacgcgtc cgcacacgacg tccgcccacg cgtccgcgtat gcggagtgga acataattta 60  
cgacaagttg gaaaaaatcg tcgctacagg tgccaaagtt gtacttagta agttggccat 120  
cgagagattt aactacgcgtt attttgcga tcgagacata ttttgtgctg gtatgttcc 180  
agaagaagac atgaaacgtg tcatgaaagc caccggtgca agcatgcgt ctacagtgaa 240  
taagctaact gatgatgttc tcggtacttg cgcattgttt gaagagaagc aagttggtaa 300  
tgaacgttac aacttttca ctgggttgtcc atatgctaga acagcgacat ttattattcg 360  
aggtggttcg gagcagttt a tggatgaaac ggaacgttc 399

<210> 2774  
<211> 137

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-C3  
  
<400> 2774

tctatgcaga ctgatcctca attcaggta aaccatggat tacttcgggt tagtaatgat 60  
cgtttccaca agtcccgtag atgtattcag gaagttgggt ataggagctt aaggatcgca 120  
ttccttgcc gatggaa 137

<210> 2775  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-C6  
  
<400> 2775

ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtagg 60  
taaagcgaac gggtgagtaa agaggtgtga aagagtggaa gaacatgaaa gcacagaaga 120  
atgtaagaaa tggtagagt aaaaaccata aaggaagtaa aagcggaat ctgagaggag 180  
gaaagccaca ttggaactga gaaaagggtcc aaacaaggaa agtaaagcct aagaaagagt 240  
aaattaggca agcaaaggca tgagagaagt ataatagcag aagcatgctt gaagaaaaag 300  
aaagagattt cagaaaggaa agaaaagtca gctatagaga acaggtgaag gagaactcaa 360  
aaagaggaga gcaccgaacg atcgaagaag aaactttggg ggtaac 406

<210> 2776  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-C7  
  
<400> 2776

cccacgcgtc cgcaagaaca gtgggtgctt tgtaccatgt ctttctgtcc ttacaagtga 60  
ataggttcct atggttatct ggactcattc tggcagttgt aactattctt caaacccctag 120  
ttatgtatag aagctcaact atagaacaga aggtgtcctc taaacaaaag tcttcaaaga 180  
aagaccccaag aaaagaacaa ggagttcag gttgtcctt gacgtggttc caataaaaagc 240

agt catt caa ctac gccc att cggtt cac ag ctat ggtt tc ctt ct tc atc ttt gaact ga 300  
tc acata caa ccgg taga aag cgat ggg agt cg aga caa gc tagaaa agg aact cgca ac 360  
aagt caa aagc caca aata aag ttgtta accg aata act gtc caata cgggt t 411

<210> 2777  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E1-C8

<400> 2777

cgc cctccat attc acttt acag accaa agg agac ctg gtat ggctc atctt gcca c 60  
ttcc caaa ag gcgtttcca gag tctgcca agta agttc aagtgcgtt a tgggtgcgag 120  
cg ttcatcct ccaa agtctc tttatataat acttattgtt gttt gaaa at aaactactct 180  
cg agtggcag taacttggat actt gctgca accatgtttt ccaccctacc tctgggtctc 240  
tg tttt gata atactgcgtg gttt gctat gctgaagg a taga acgtga tttagg caaa 300  
gttggcggtg gtgcagcaag ctcgggaaa acctctactg gtgtatctcg gactgtaact 360  
agaggagtga accta agtgg agc agat ttt tcgggacagg acctt antgg tgtc agttt 419

<210> 2778  
<211> 359  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C9

<400> 2778

gcc aat caaa gct agt gata gct ggt tactc ctc gaa agct atata agtag cgtat gcagg 60  
aaagaagaag gtaa aggaag aga agga aagc agc a gagg a gactat gac gagaagg tgg 120  
at agt cgaga ggg aaaa agc ccaga agcc a agata aggt a tcaa agt aaaa gaa aga agga 180  
aaaggagaag a a gagg aggt agg ct tagaa gcag caa acc aga gagg aaaa gcgtt a aagc 240  
at gaa agaaa agaa atccga aaa aga aagag aaaa aggt aa gagg a gac cga atc aggg 300  
taa gaggt tag agg agca a a gaga a gaga gaat gct ggg tgg agt atcg aa aca a a g 359

<210> 2779  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-D10  
  
<400> 2779  
  
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gtgtaccaag aaaaaccgta aagaagacaa ctcaactcaa ttctgccaaa cgaacgagtc 120  
ctttctgcag taactttgaa gaatctgaag ctctgtgact gcgcacggc acgagacttg 180  
tatgaaaagt actagctcaa ggtttactact ggaacaaaac aatactgcaa ttcacttgg 240  
cgatccattg cttgcaagca acttacgagt caaacacgca ctcgaagagg caccaacgtt 300  
actattcttg caagaataga tatcgccctag tgcaacaaca taagtatata ttggtatatt 360  
tgcaatttttta gttcgtcaaa agatgttat 389  
  
<210> 2780  
<211> 378  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-D5  
  
<400> 2780  
  
cccacgcgtc cgccccacgctc tccgggtgtc cactcgctga ggaagagcta taaggttca 60  
agtggatgac gagaatttac gtgcaactag cagacttagt gtcgggtgtac aagcaatttt 120  
tttgcaacct ggtgattgcc tagccgatgt ggatgtcatt ccatcgctcat ggctccaaaa 180  
gggatcctcg gagttgttatt tcttggcagt tggcaaatat ggaaaaggaa agagaataag 240  
agcatttagat attccggAAC gaaaacgata tcaagtagga gtttatgtga tgaagttga 300  
tcggaaAGAAG gaaccgaaAG aagagcttcg attttccgt gcgtgtcgaa gcgtgaagt 360  
tgtgttgtgc accaacac 378  
  
<210> 2781  
<211> 334  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D7

<400> 2781

gttggattg agaggaggt cgacgagctc agcttgaaga ataattaact tgcgtgggt 60  
tggacgttat ttatgaactt ggactctatt gacagatgaa ttaatgcgcc ttttgaccg 120  
tttcagacg cctcacgtgg atatgacgca acagtatgca aagatatagt gcatattcgc 180  
ttgcaagata gatacggacg caagtgcattt acgacgattt atgggcttga cacataattt 240  
gatttgaata gtattacata ggccttcaaa gaggagttt gttgcaacgg ttgtgtcgta 300  
tacgacgcac atctggaaag agtcagccat ctgc 334

<210> 2782

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-D8

<400> 2782

caaaaagtgcg agcaagtaag actcgatatt actagaatga agcgtacgtt gcagttcacg 60  
ttgaccaagc tccaagatct gaaagcagcc tcattcaaca gagatactac gcacagagag 120  
aacccggaagc aagtgaacgg agttgacgaa gaaatggaac ctcaagaatg gctccactgg 180  
atagagacaa aggtagattt gtcaacactc gcatcatttga aaagccaggt acaaacgata 240  
tcaaaagacc agcaatggac ttttctgtcc tcncttttag agaaagccta ttcaaccgtc 300  
aacagcgaag atttatcaac cgaatcctgc tcagtgcac agcttattca aaagaaagac 360  
gaagaaatag ctttttgcg gcaacgacta gccg 394

<210> 2783

<211> 353

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D9

<400> 2783

ccccacgcgtc cgccccacgcg tccgggacct cctctttcca aaaatttattt ctaccacgtg 60  
aaccgcaata cgaatagtga aggagaacat aaaaaacgtg caagatgtat acaagaacaa 120

ccgcaagttg tttcgatcc tagcagcccg atggaagaac aagcagcgac atcaccacaa 180  
gatgaaagtc cggctccgag cacgagtaat cctagtagtg catcttggaa tgtattgtct 240  
ttaccagcag aaaaatggaa agagaaagca ttggatgcag agaaacgtgc tcagagaaca 300  
agacaagttg ccaaagcaaa gattaacgag tttcgtgaaa catgttatca ttt 353

<210> 2784

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-E10

<400> 2784

aggatccatc taaagtccaa cctatggcta agatttgacg ggaaggagtt tatgccgc 60  
cgtcccaaaa tcgaatttag ctgttggata aaattcggaa caaactatcc tcgatttagat 120  
tacgcctacg tagatatgac tgacgacggt aattggatgt tgtacccat tcaagttct 180  
gtttcatctt ttccagctca tagcatagac ttagcacagt tggaacggtt gtcaagaaaa 240  
actgatggaa ctgttcaact tgcttcgttg ctaaattcgt tctttgctga ggtttagaa 300  
gtctcgccctg tgtatgatgc cagggagaag atagtgaact tcgaggtAAC agactctcaa 360  
ggcatacatctt ttccgagacag aatatctatt ttgtatgtga ct 402

<210> 2785

<211> 290

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-E11

<400> 2785

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ctccttgtga caaggaatgt aataataatg acgagaataa caatttagagg ttatccaa 120  
tttccgttct cttttcttcc tctttcattt gttccttgat tctttccaca attagattgg 180  
aaggggctaa gaaatagaaaa atagttctta ttccattctt cagtcgagaa ttggaaatat 240  
gtggttctat accgatataa agatgaccaa gaatggataa gaacanaana 290

<210> 2786  
<211> 262  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-E12  
  
<400> 2786  
  
aggctctagg tccaaacctt gggttggttc ctccaaaatt taaccaaccc aattaactta 60  
tccccggaag ttgccaaaccg aagttacaaa ctttacaggc aacttttatta ctacatacgc 120  
attcaaacat atgaccaatg caatgacgaa tacaggtacc cttgttggtt tccaaggagg 180  
tcctactaat ctcggttgga tgtatctcaa gttctttatg ccacagaccc aagacaagac 240  
tctcgaaaaaa atgtgtgaaa ta 262  
  
<210> 2787  
<211> 295  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-E7  
  
<400> 2787  
  
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gccaaggaa gaaaaagaaag attcttcaaa gaaaagaagcc acaagtaaac ctgcagcagc 120  
agatgctaca aagacgacag aaaagtctgg tccggaagcc aagttgaagg gaactggtgc 180  
aaagaaacaa taaaaagttt actatgcatt tgcaatgcatt ttatgtttt tgagttctgt 240  
ttgatagttt ccagctattt ttttggtagt gaataaagag aaaattttt ataag 295  
  
<210> 2788  
<211> 373  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-E9  
  
<400> 2788  
  
agtttggat gtttggcata agaaagctcc catgcagaat tatctcttac acaacacaaa 60  
attctgttcc gagtttggaa tgcaatcgct ttgttcggta gagacatgtc gtttattcgc 120

accggaatca gaaatgaata tgTTTAATTc catATTTgaa agTCACCAAA agAACAGAGC 180  
aggcaacgaa atcatgttgc attatatTTT tcagTTGTTc caatttcctc gCTCATACAA 240  
aagtTTATCC tatCTTTcac agCTGAATCA agCTCTATGT atGAAATGTG gcGTCGAACA 300  
ctttcgtaga cAAATGCCGT tttGATGGG ctctCTTTac tggcAGCTGA atGATTGTTG 360  
gccAGTGACT AGT  
373

<210> 2789

<211> 393

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F1

<400> 2789

aaAGTATTCC ggtGGAATGA ggAGGCGGTT aAGCGTTGCC gTTTCGCTTA ttGGATTCC 60  
ttcGGTTGtg ttATTTGGACG agcCTTCCAC aggACTAGAT ccAGACTCCA aACACAAAGCT 120  
gtGGCAATGT atCCAACAGA gAAAAGAGGG caAAACTATT gTTTAACGA cacACTCCAT 180  
gGAAGAAGCC gAAAGACTGT gtGATCGTAC CGGTATTATG GCCAGTGGAA gTTGAAATG 240  
tGTTGGTCCT ccAGAGGAAC tGAAGATTG tCTTGGAAAA ggCTTCCGTC tGAATATTc 300  
ttGTCCAAGA agACGCGTTA aACAAGTTCT tTCGTTATA gaACAACAGT atGCAGATGC 360  
atTTTGGAC cATTCCCTAA CGGGTAGTGT TGT  
393

<210> 2790

<211> 391

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F11

<400> 2790

agcccacgcg tccGCCAcG cgtCCGCCa cgcgtCCGCC cacgcgtccg cccacgcgtc 60  
cggccatttt tcttGTTGAA agcGTTGAT agaaaaATGC caAGAGTTGT tttGGCGCCT 120  
tgttaataCT cgtGgtaca tatataAAATT atGAATAAAG AAAATCTCCA aATAGCGCAA 180  
tttGAGAGAC tcacaACAGA gcaaATGCTT aatCTGGTGA aagaACCTTC tagGGTTG 240  
tactacacAG tcgaACACttt gagGAAACGA gggataCCTC gtctGGTTG cgaacaAGAG 300

aaactcgaca cagttattag taaggaggac gacctcaaga tagactgtca gtttgcac 360  
gagacgatgg aaatgttcc tgcagctgca g 391

<210> 2791  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F6

<400> 2791

agcccacgca tccgagaggg gattgggtgg tcacgaacga gaggatgttgc 60  
ttttcaaaac gtttatcgcc aaaacagtta cagtagaact caaaaacgtat gtaattttc 120  
gaggcaaagt acattcagtg gatcaatatac taaatatcaa gttggaaagat atagaaatac 180  
tcaatataga aagttgccca cagttgatga ctttgaaaaa ttcttttatt cgtggtagtg 240  
ttatttagta tattcaagta tacgctatcg acgtcgactg cgagatgcta caggaagcag 300  
ccagaagaga atacaaggag ttgaagaaag tagccaaata gggcgcaaga cacacgtgac 360  
cattgtctat ctatccacgg cgtgatgaac caactgcaac ttttgt 406

<210> 2792  
<211> 390  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F7

<400> 2792

agcagatggc caacgctggc caagatggcc ttgtgcaagt caacaaacat agaaaagtaa 60  
agagattgca agaagataat atttaataga gcactatcac aaccaggaga tgtatttc 120  
tgctttgca acatccagtt gttggtaat gcagaaagag ctattatagg aaatattact 180  
tgtccagaaa gtatcgaatt gtgtcgctca ttagctggac atatagcggt ttgggtcgat 240  
gaacatttgg atgactttcg tttggaaagct atcttgggag cactattgtg tacttggat 300  
tgtgagtgga agcgaaaaatg aggagaattg ggggtacaag aatggaaatga attggagaag 360  
atatcttcct tagataacttg gaagcttgc 390

<210> 2793

<211> 140  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F8

<400> 2793

ggtcaggagt ccccgccg acgcaaacgt cagcatatgg caaacactgg tcaacattgc 60  
cttgtgcaag tcaacaaaaca tatactattc gagagattgc acgatgacaa tatTTactag 120  
agcagtatca cacccaggg 140

<210> 2794  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F9

<400> 2794

cccacgcgtc cgccggacgcg tgggtccctt tcgtacattt tggattgtgg cacacaacat 60  
gaaaattcct gtccgactcg tcaagtttc ttggaaaaa aagaagccaa ctgtttcaa 120  
cagaagtata agtggaatcg cctacacttt ttctcgccat ggacaggttt ctgatgtctt 180  
gaaaaaggag actcaaagct atgatgagaa gaaacttggt cttcgcaag tactcgtgtc 240  
gtttcttgcc tcaagtata tag gcacaacaga tttggcgtgg ataagaggtta tggaaagat 300  
aacagaagaa ggatccaagt tgccttggt tgccggttt gaagggtgtgg cagaagtagt 360  
agcaactggc aatcaagtca agtccgtgg tgTTggagaa cgcgtggtagt ctt 413

<210> 2795  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G1

<400> 2795

ctcagtcaga actgcttctc agtttagttac gcaatatgcc tagtcataag gaacaaaata 60  
aaggaattaa aatatcagct gacggttacg cactaaagtt gagcggtatt cggtggacg 120  
tagacggcag tttggtaact atgggtggacg cagacgacct cagagccctc atgtttaagg 180

aaagcctcaa ggaaaagtca aagctgcatg acccaaaatt tttcaaaagc tattatgagg 240  
agaataagga ctactttat tatatgaçtc atacggagaa gaaaatgtt ctttçtctgg 300  
aagttgcacg agaaçacgct actctggtgg gaaactcggt tctgcagaaa tatttggaca 360  
aagtcattga gcacgaacac gcatact 387

<210> 2796

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G5

<400> 2796

caaatggcgt ccttctact caggatgcc tcgctgtctt tttgacatgt ataggacaag 60  
tcattccacg ttttccaaa gtatttagag gcgttggaa aactttgtc catagcaagg 120  
ccatcgaccg tgtgacggat gtgttgata tgtcggtata ccaaggcct tgtggttggc 180  
gttatatgac gaatttgatg gataaagaca aagtcgatat ttgtgtggat gaaaatggag 240  
gtttaggttg tagttggatt cgtgaaagag acgggttgtt tttggcgtt tttggttaa 300  
gtttggcgtt gttggaaaaat gaaaatcgat cagagtggat gagcatagag gatgtgatgg 360  
aacaacattg gaacatgtat gggaaag 387

<210> 2797

<211> 223

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G6

<400> 2797

ccgggcccac ccaaacgtca gcacatggcg tccttctac tcaggatgc ctgcgtgtct 60  
ttttgacatg tataggacaa gtcactccac gttttccaa agtacttaca ggcgttggaa 120  
aaacgtttgt ccatagcacg gccatcgacc gtgtgaccga tgtgttgat atctcggttag 180  
taccactggc cttgtggttg gcgtcatatg acgaatctga tgg 223

<210> 2798

<211> 414

<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-054-Q1-E1-G8  
<400> 2798

cccacgcgtc cgaattttt ttgggttcctt ttcgcatgtc ttcaagcagca gttggttcgc 60  
aggcagaaaa ccaagacact cgacgtgcca acgcactaaa ggagtatcaa agagtagtct 120  
cccagcatag agatattgaa aatagagtgc gaaggcttcg tgaggaagtg aaaactctca 180  
agcaacaatt tgataagacg gaagatgact tgaaagcttt gcagagtgtt gccaaatta 240  
ttggagaagt tcttcgagct attgatccgg agaaatttat tgtgaaggct tcaagtggtc 300  
cacgttatgt cgtcggatgt agaaacaaaa tcgatagaga taagctcgta cagggagcac 360  
gtgtctcttt ggatatgact actttgacca ttatgcgaat acttcctcga gagg 414

<210> 2799  
<211> 286  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-054-Q1-E1-H1  
<400> 2799

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tattgcaaaa gtttcttttc ggatattaca gtctctacat tttactcagc gagactctac 120  
aaggttgacc taaaaaaaaata ttatattcta gtttcccaag cataggtata ctactcgtca 180  
atgactacgt attcaaatgc ttcttccaaa ttctgtaaa taactagcaa gcgttgctg 240  
caaacgatcg gacaagttt a ctttgataac gttttcaac gttgga 286

<210> 2800  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-054-Q1-E1-H11  
<400> 2800

aaaaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaaa 60  
aaaaaaaaaaaa taaaaaaaaaa aaaaaaaaaa aaaaaaacag gggggtcccc cttggggttt 120

caatgtttt ttccctgtgg ggttggtctt gagactttt gggcgttcc tcttactttc 180  
tattctgggc ctgtctttt acatcttcct actggaaaa cccctggtgt ttccccttt 240  
acccgcttgt gctgaattcc cctttcgcg ggatggtgtt gtcttata gggcttccc 300  
tgtttgcct ttccaatcct tttgtccacc tgtgatggaa aatggaaacc cccccctttt 360  
tggccctttt cccccgtggg gtt 383

<210> 2801  
<211> 359  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H12

<400> 2801

aaggacggtg ctagtgctgc tctttggact tgccgcctat ttctctatac agttgtgtta 60  
gcattttcag caacaataat tggacgtgat ggaaagaagg cagataaacat atgaaacgat 120  
gcccttagatt atcatggaaa agtggtgaac ttttgtgcat attcggcttc gtcagtttt 180  
gaaagtggcg accatggcgc atgtaaatat gtgatggctt tggcttctat cagcttgatt 240  
ttagtttct ttcgttggtt gcgcctccatt gtcgacgcat tgtatccaat tcttacaaag 300  
ttctggtttgc tgagcttgg tatcaagata ttccctacta tgttagtggat ggttggtgc 359

<210> 2802  
<211> 281  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H4

<400> 2802

ccacacgtcc gcccacgcgt ccgccttcct acaatcaata ttcttcttcg tacggttcct 60  
ctagctatcg tctcttaact gcagacgaaa accaacttgt gagcagagga ggttatgcac 120  
caacaaacca atgtattcta gttcctatcc aatgctgcac tgattgcaaa caatgctacg 180  
ccgcatggag ttcttaata ctgatacagt gctcgatag aaagaaacaa atatcaacgg 240  
atgtttgttt ctttacgtg aataaaactt gtgttcataa c 281

<210> 2803

<211> 334  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-H5  
  
<400> 2803  
  
cccacgcgtc cgccccacgcg tccgatcgct ataggaaagt gagcaataca gtcttcaagg 60  
caacagcttt aacgttgtcg actgctgcag taattggaaa cctatacata ttgcgaaact 120  
tgctcagcat agtttcctac agaagttcaa agaaggagct gacggaagcc agtagtactc 180  
aggaaaaactg agaaacaccaa gttgtttca cgtctggagg atggaaaatat tatctgaagc 240  
taggctgggg gtctgttcct tgtagaagct ctgggtttt gagaacttgc aattgtttt 300  
ttctttgtag taaagaaatt gtcttcttt ttct 334  
  
<210> 2804  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-H6  
  
<400> 2804  
  
aggcttcggg ctataaactt aagatgttgg tgattatctt tgaaatgggt gtagcttcc 60  
actccgtaat tattggtctg aatcttgaa taagcacagg atcgacattc cgtacgttgc 120  
ttgctgctct cgtatttcat caattcttg aaggatttgc tgtcggtaact actgtttctg 180  
aagcccagtt tggcacttgg attactatag taatggtaact ttgctattct ttggaaaactc 240  
caatcggtat atctattggg attggatttg cacacactta tcaagaaaac tcctcggcat 300  
ctttgttaac gagaggcatt ttggatgcca tctccggtgg aattttata tacacaggat 360  
tggtggagtt gttgact 377  
  
<210> 2805  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E1-H7  
  
<400> 2805

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ggcatttctc agatgaagtg gagtttgat ggaaagtatt tggcttcttg taatgaaaac 120  
actccgcatg tcctctggat ttggaatgtt cttgaaatgg aacttgaagc agtttgata 180  
tgtcagacaa ctattaagac aatacagtgg aatccatatt gcttacaact tgctttgtg 240  
acaggttccg aatatctatt tttatggaat tctcaagggtg ctgtcagtgt tccattaccc 300  
tttcctgagt tttatccgca gtattgtact tggcctttgc aagagaaagg gacactttg 360  
cttgctgaca agagccaatt ctgcctcgcc atggaagaag aataaagctg caa 413

<210> 2806

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-H8

<400> 2806

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gcctgaagga cgatgagcac tatctcggtt tctctcaaga aaccggata tgattcctt 120  
ctagggtttg ttccataca atgtattggc ttgtcaccaa tgaaactatt caatacgtgt 180  
tgtgctcgac cgatgagagc ttggacctct ccaaccacca taaagtgtat ccaagacaac 240  
ctccatgagt gggttcgttg taaagtantt cgttggac aaaaacatat atttcttaggc 300  
cctatcaaca gcttaactgg ttccaaggca ctgcctatcg aaatanaaag ccaactggat 360  
gccgacttgt tgcgttctgc ac 382

<210> 2807

<211> 373

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H9

<400> 2807

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gagaaaggta tccatattat gacggtaag tataatgtga cacgggtgtt gttccccgg 120  
aaacgaggcc caaaggaaga cgtgtcatag tagaagagcc agaagagtac ggaatgccgc 180

caggggacag agatgatacg gaagatgacg agcacattgg tggggaga agaagagagc 240  
agcacagcat gcagcattgg gaccagtac ctttgaaca ttttgacaga ctttcgaaa 300  
atccctttc tgcaatggag agaggaggat tcgggtggatt atttggtaac ttgaaacagt 360  
ccttaagaag act  
373

<210> 2808  
<211> 378  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E2-A1

<400> 2808

cggaaaaagg ggtggatcac gtaaaattaag ccgatagaaa ccgagaacct tacctctcgc 60  
aagaaggtgg tgcacggctg tcgaaagaac gtgctgtgga gtgagagaac gtacgagaaa 120  
gccaaagttag gaaaagaacg caagtagacg gcggcccgag aaaggagagg gcgtggacg 180  
tgatacagag tacgaagaaa agagaagaga gctacaaagg agttaaaga agaggtgggg 240  
aggacgaggg gagggagcgg gggggcacga ggaangatcg tgaaggaagg aggaatccca 300  
agtaatcgac gaagaaaaag ctccggtgaa agcgtgaacc gagttgtac acactgccc 360  
tcaagttctg ggagtgtg  
378

<210> 2809  
<211> 435  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E2-A12

<400> 2809

aattcacggg ctaccgtctc gtttatattg aagaatcatt ttccggaatg tgagcaacaa 60  
ctagagcaat gtttgtgga tacctgtggg atcaaggaaa cgggtgaaga ttttatatg 120  
cggtggacg agcaacacat gtcttggttg caaccttgg aagaaagtca acgacaatgg 180  
ttgcaaagat tgtattccac agcaccgatt gtacaattgc aaggaaagat agaggagttg 240  
gaagatattc ggattcaagt gagttggaaa gtatcgctat cctatgataa gcaacgcagt 300

ctttggtgga atcagaatag caacaaaaga gccagtcggg aaacttggta tattctactg 360  
gtaaataccca acactggaa aataagtgc tttcgaagag ttgcgtcnct gaaaaaacag 420  
gtgacaagga cattg 435

<210> 2810  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-A5  
<400> 2810

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tattcatgat gtgccaccta tatctacctg tgtacgcact atgttctccg agttttggag 120  
aagtcatcac gaggaatggc ccaaacaaaa gcaaatgtt cgggcccgc aagagaagc 180  
gttgaatgaa ttgctcatcg caccaagtta ttatgcttga agcgttgcgc gcgcgccagg 240  
gaagccaggc tcgtggcatt tttttttaaa aaaagaaaaa agacgaaaaa aaaaaaaaaag 300  
gaaagaaaaa aaaaaaaaaa aagaaaaaaa acacgaaacg gagagggcga aaaaacgaaa 360  
aacgcgggga acgcaaaaaa aaaggggggg ccccc 395

<210> 2811  
<211> 167  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-A8  
<400> 2811

gcgcgcgtcgt ggggttttc gattcgtgtc ggcagtgtt gctgagaata ggaaaacatg 60  
acgagatatt ccaaggaacc agagtaaccg acgaaaactt gcaaagctcg tggttcggat 120  
agtcccgatgc acgttaaaaa cacgcgaaaa aacggacgtg gtttggaa 167

<210> 2812  
<211> 216  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B11

<400> 2812

gtcagcgaaa gaggtctatg agtagagaga tacgtcagag tagaatagaa aagccgtact 60  
gaagaccgac acaggtactc gatgagaaaa gagacccaaa ttaacgtgag agaatggacg 120  
ataaacgaact acgcaaaatg atatggtac tgcggtagaa catatgaaag aagcagcacc 180  
gactgtttag ccaaaacaca gcactctgca gaaaag 216

<210> 2813

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B2

<400> 2813

agccacaaca agcatcagaa caaagtgg gtggccgc accgttatga ccgcttcgac 60  
cagaacagga gtatgtgaac aacaaaggaa aaccaagaag aagagttgc aaggaatcaa 120  
cggaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gatggcggag 180  
attttggaaag aagaggaaat cttcaagtta ctagaagctt ttagaaagta gttgccacgg 240  
gcagccagca gcgtgagagc tcaagaaata attgaagtac gtattgcac cccttggctt 300  
ttgaataatt cacaggagaa agagtaagtc tggttaagttc tttacggaga aagaacagtg 360  
ggagctgtgg gaaaacgttt tg 382

<210> 2814

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B4

<400> 2814

caacatcatc aaatgccaagggagaaag aaagattttt caaagaaaga agccacaagt 60  
aaacctgcac cagcagatgc tacaaagacg acagaaaagt ctggccgaa agccaagtt 120  
aaggaaactg gtgcaaagaa acaataaaaa gttgactatg catgtgcagt cctgtatgt 180  
tttgtgagtt ctgtttgata gtttccagct attctttgg tagtgaataa agagaagatt 240  
tttgttagatg tagagaggaa aaaagaaaaa aaaaaaaaaa aaaagaaaaa aaacgaaaaa 300

aaaagggcag ccgccccaaa ggatccaa

328

<210> 2815  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-B5  
  
<400> 2815  
  
gaaataataa aagagagaga gcaacgacga cggagaagat gaggttattt caacgttgg 60  
aaagaattgg caactatttc atctactcgc agtactctag tcgaccgaat agtttatttc 120  
aagcagaccc taggaaatat aatatatatatt tacagcatcg ggtggagaaa cacctagttg 180  
cccattctat ggttgcagca tccctacata atcctcgctg tcttacgagt tggtcgtag 240  
gagagcaaca ttggaaccaa gtacacaaaaa caacaacaac accaagtgtg gataatcatc 300  
ctagtcgtga agaagaaaaag agtttggtag tcgttcctgg tcaagagaca aaagaagaac 360  
aaggagccaa gcgacagagt ctgcagacc gaatatttc aagttttcc g 411  
  
<210> 2816  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-B6  
  
<400> 2816  
  
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aacttcaaag aacgtatgtt gctcgtagttt ttttgcaaa aatagctcta ttccgttcca 120  
tgctaccaac agaaggagtt gtgttttcc gctgtcttt ggtggagcgc ctgtcgtag 180  
ttataagtgg gaagtggctg caaacctgca gcaaggcag tttgggtcag ttgcgttgg 240  
ggtgcgttgtt gacgttaggtg aaggtgaacc tatcgattct gctatagcaa gtttcggag 300  
agaagtttagc aaaagtggtc acttggtaa gctgaaaaga cgacaagagt ttgaacctaa 360  
tagtgtgaag cgacaa 376  
  
<210> 2817  
<211> 401

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-B7  
  
<400> 2817

agccccacgcg tccgggttta gtccatgtgg tggttagaggt agttggatgg tttatgttgg 60  
atcctttcca ttgtgcactt ctccaaagtt tctgtggttt cgcgactttt gtaagtataa 120  
aaggactaga aaaagtc(cc) atgggtgttc cttttgggtgc ggttcgaagg aaccttttc 180  
cgatggcgcc aagatcacga gtaggagaaa cagcagctca ttcaggtgga agcctagtgt 240  
acggggttcgt tttgctaaga aatggcttcc ttcgaaggaa attttggac agtggagaga 300  
ctcggagcac gtgacacctg cggcagggcg gtcttcactt cttggaaata gaagattggc 360  
tgttctagaa tatacacaag atatattgaa accacttcag a 401

<210> 2818  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-B8  
  
<400> 2818

agcggacgcg tggcggacg cgtgggtttt cccaacagaa aatgtacaca aacagtata 60  
atctagaaga atacaatcaa cttgagaaaa agttcaagt aatcacaact tgcacatctca 120  
tctcatatca tctttctatc atggaccaag tcgatgcatt cggtgcatgg ttgttgtgtt 180  
gcttcctaga aaaacttggtt gagagtgcta tgaactgttt gccagggagg gaggacggcg 240  
ggggtgcaat gcccatttat tgggtggaga tccaagcgtc gtgttctgcc aacgtacaaa 300  
ggataagcgt ccatagcaac tatatatggc acttgcagct acaatgtatg caatgttagt 360  
aaaaaaacggg gtggattgca gtcgatcctt tgcaaggaaac gacaagagt 409

<210> 2819  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-C2  
  
<400> 2819

acgcacgcgt ccgccccacgc gtccgcccac gcgtccgcga tgcggagtgg gacatgattt 60  
acgacaagtt cgaaaaaaatc gtcgctacag gtgccaaagt tgtacttagt aagttggcca 120  
tcggagattt agctacgcag tatttgccg atcgagacat attttgtgct gtagggttc 180  
cagaagaaga catgaaacgt gtcatgaaag ccaccgggtgc aagcatgcag tcgacagtga 240  
aggggcgaag tgaggagtgt tctcggtact tgccattgt ttgaagagaa gcaagttgg 300  
aatgaacgtt acaactttt cactggttgt ccatatgcta gaacagcgcac atttagtatt 360  
cgaggtggtt cggagcagt~~t~~ tatggatgaa a 391

<210> 2820

<211> 227

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E2-C9

<400> 2820

aaaaaaagccc agaagccaag ataaggatc aaagtaaaga aagaaggaaa aggagaagaa 60  
gagagggtan gcttagaagc agcaaaccag agaggaaaac gttaaagcat gaaagaaaag 120  
aaatccgaaa aagaagagaa aaaggttaaga aagaggaccg aatcanggta agaggtanag 180  
gagcaagaag agaagagaga atgctgggtg gagtagcgaa acaagag 227

<210> 2821

<211> 196

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D12

<400> 2821

gcgtcagcca ctacatgagg attaggaatc taactgaata aggaaaacaa gcttaagcta 60  
gtttagctgg ggaagtaaag cctaagaaag agtaaattat gcaagcaaac gcgggagaga 120  
agtataactag cagaagcatt cttggggaaag tagatagaga tttcagacac ggaataaaag 180  
tctgctatcg agaaca 196

<210> 2822

<211> 377  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB190-054-Q1-E2-D2  
  
 <400> 2822  
  
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 ttaatacga ggccagagaa agggagccgg tagtgttagtt cgtggcatg tcgtcaaaag 120  
 aaaaggagca gccaagtgt aagcgttgaa ttatgccaa agacacggat atgggagagg 180  
 agtcgtcagg gaaaatcatac acgacgcagg aagaggagct ccttggcgc gagtggaggg 240  
 tgagggatgg gtagagagat aagagaagag tagagacttt tatggcacca gaaggtttat 300  
 atacgggaca attcgtgtat tgtggaaaga aagcccaact agcaatcggt aacgtccttc 360  
 cacttggttc cttacct 377  
  
 <210> 2823  
 <211> 396  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> Clone ID: LIB190-054-Q1-E2-D5  
  
 <400> 2823  
  
 agcccacgca tccgcccacg cgtccgggtg tccactcgac gacgaagagc tataaggttt 60  
 caagtggatg acgagaattt acgtgcaact agcagactta gtgtcggtgt acaagcaatt 120  
 tttttcaac ctggtgattt cctagccat gtggatgtca tgtgcacgtt catggctcca 180  
 aaaggatcc tcggagttgt atttcttggc agtggcaga gatgaaacag gagagagagt 240  
 aggaggatta gatattccgg aacgaaaacg atatcaagta ggagtttatg tcatgaaat 300  
 tgatcgaaag aaggaaccga aagaagagct tcgatttttc cgtgcgtgtc gaagcgatga 360  
 agttgtgttg tgcaccaaca caggaagaat tgtacg 396  
  
 <210> 2824  
 <211> 369  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> Clone ID: LIB190-054-Q1-E2-D7

<400> 2824

aggttggaat tgaaaggagg gtcgacgagc tcagcttcaa gaagcgagaa cttgcgtggg 60  
gttggacgtt atttatgaac ttggactcta aggacagatg aattaatgcg cctttgacc 120  
cgtgtgcaga cgccctcacct ggatatgacg caacagtatc ggaaaatata atgcagattc 180  
gcttgcaaga tagaaatcga cgcaaataca tgacgacgag tcatggcgt gacaggcgag 240  
tggggtttga ataaaattac aaaggccttc aaagaggagt tttgtgcaa tcgttgtgtc 300  
gtatacgcacg cacaactggg aagagtcatc catctgcaac gagaccacag ggattaagtc 360  
aatcagttt 369

<210> 2825  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D8

<400> 2825

agcaaaaagtgcgagcaagta agactcgata ttactagaag tgaagcgtac gttcagttc 60  
acgttgcacca agctccaaga tctgaaagca gccgcattca acagagatac gacgcacaga 120  
gagaagcgga agcaagtgaa cggagttgac gaagaaatgg aagctcaaga atggctccac 180  
tggatagaga caaaggcaga ttcgtcaaca ctcgcattcat tgaggagcgg ggtggaggcg 240  
agaggggaag accagcaatg gactttctg tcctccctt tagagaaagc ctattccacc 300  
gtcaacagcg aagatttatac agccgaatcc tgctcagtgc aacagcttat tcaaaagaaa 360  
gacgaagaaa tagctttttt gcggcaacga ctggccaaag ttgagcaagc 410

<210> 2826  
<211> 169  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E10

<400> 2826

cagtttgtat agttggcca ctgcattc acatgcata atagcgcgtt caacacacac 60  
gattctggtt ccagctttgg aaagcactcg ctttgcgtt tgaacacatg tcgttgattc 120

acaccggcaa cacaacttaa ggaacttggc ctccacattt gaaagtccc 169

<210> 2827  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E2

<400> 2827

ccccacgcgtc cgagagggtgt atgatgcagg cgaagaagtgc acgcagtagg tcagggacga 60  
agacatgcag gtaggtaaag cgaacgggtg agtaaagagg tgtgagggag tggagaaca 120  
tgagagcaca gaagaatgta agaaagggtt agagtaaaaa ccataaagga agtgggagcg 180  
ggaatctgag aggaggaaag ccacagtggc actgacaaaaa ggtccaaacg agagaagtgc 240  
gggtggcg acgacggggg caatgtacag ggaagtatgc cccagtgtatg aggactggag 300  
taaacagaaa aggaagtaaa aggagggaaat gaagggaaat tatggcaaaa acacgtgcac 360  
gcagc 365

<210> 2828  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E5

<400> 2828

cccccccccc cccccccacc cccccccccc ccacccccc cccacccacc ccccccaccc 60  
cccccccccc ccccccccac cccccccccc cccccccccc cccccccccc cccccccccc 120  
ccccccgccc ccccccccac ccccccgcaa ccccaacccc ccacccccc cccccccccc 180  
cccccccccc cccccccccc ccccaacccc cccccccccc cctccccc cccccacccc 240  
ccccacccca cccccccccc cccccccgccc caccggggcc cccccccccc ccccccaccc 300  
ccccacccca cccccccccc cccccccccc cccacacccc caccacccccc 350

<210> 2829  
<211> 251  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F2  
<400> 2829

ttccttcagc tgagctgaga cagagacgtg tacatagtga cttgcggaaa tccatccaac 60  
tgcgcggaac gttatcccga agaacactgg atatacgtcg gtttattgga ttgttagag 120  
cacgttagtg gggggcgtgg cgggcggat ccagagtgcg cgactaaac tttgcctctg 180  
atgaacgctg gttccaaata tgaatatctt tggcaagaca acgaccaaca taagaaatca 240  
accacagttt c 251

<210> 2830  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F6  
<400> 2830

ccccacgcgtc cgagagggga ttgggtggtc acgaacgaga ggatgttgc 60  
ttcaaaacgt ttatcgcaa aagagttaca gttagaactca aaaacgatgt aattattcga 120  
gggaaagtac attcagtggta tcaatatcta aatatcaagt tggaagatata agaaatactc 180  
aatatagaaa gttgcccaca gttgatgact ttgaaaaatt cgtggagggg tgggggtggg 240  
aggaggtata ttcaagtata cgctatcgac gtcgactgca agatgtaca ggaagcagcc 300  
agaagagaat acaaggagtt gaagaaagta gccaaatagg gcgcaagaca cacgttacca 360  
ttgtcttatct atccacggcg tcatgtacca actgc 395

<210> 2831  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G1  
<400> 2831

ctcagtcaga actgcttctc agtttagttac gcaatatgcc tagtcataag gaacaaaata 60  
gaggaattaa aatatcagct gacggttacg cactaaagtt gagcggttatt cggttggacg 120  
tagacggcag tttggtcact atgggtggacg cagacgacct cagagccctc atgtgttaagg 180

aaagcctcaa ggaaaagtca aagctgcatg acccaaatt tttcaaaagc tagtatgagg 240  
aggagaagga gtacgtggta ttatatgact catacgaga agaaaatgtt tcttcctctg 300  
gaagttgcac gagaatacgc tactctggtg ggaaactcgt ttctgcagaa atatttggac 360  
aaagtcattg agcacgaaca cgcatactaa gggAACCAAC g 401

<210> 2832

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G5

<400> 2832

caaatggcgt ccttcgacg caggatgcc tcgctgtctt tgtgacatgt agaggacaag 60  
tcattccacg ttttccaaa gtatttagac gcgttggaa aactttgtc cagagcaagg 120  
ccgtcgaccg tttgacggat gtgttggata tttcgtagg gcaaggcct tttgggtggc 180  
gttatatgac gaatttgatg gataaagaca agtcgagggt ggggtggagg agcgggagg 240  
ttacgttgta gttggattcg tgaaagagac gggttgtttt tggtgctttg ttggtaagt 300  
ttgttgtctt gaaaaaatga aaatcgatca gagtggatga gcatagagga tgtgatggaa 360  
caacattgga acatgtatgg ggaaaga 387

<210> 2833

<211> 385

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G8

<400> 2833

gagcccacgc gtccgaattt ttttggttc cgtttcgcgt gtcttgagca gcagttcg 60  
cgcaggcaga aaaccaagac actcgacgtg ccaaggcact aaaggagtat caaagagtag 120  
tctcccgacca tagagatatt gaaaatagag tgcgaaggct tcggcgagga agtggaaact 180  
ctcaagcaac aatttgagaa gacggaagat gacttgaaag cttggcagag tggcgccgc 240  
ggtagtgggg aagttctcg agctattgtat ccggagaaat tttagtggaa ggcttcaagt 300  
ggtccacgtt atgtcgctgg atgttagaaac aagatcgata gagataagct cgtacaggga 360

gcacgtgtct ctttggatata gacta

385

<210> 2834  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E2-H1

<400> 2834

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agattgcaaa agtttctttt cgatattac agtctctaca ttttactcag cgagactcta 120  
caagggttgcac ctaaaaaaaaat attatattcg agtttcccaa gcataaggat actaggcgtc 180  
aatgactacg tattcaaatg cttcttccaa atttctgtaa ataacttagga ggcgttgct 240  
gcaggggatg ggacgaggatg actttgaata acgttttca acgttggatt atttgccaca 300  
acttcggtaa cgttatttatgat gagcaccttg atagaaaatg gagataatac aaagcgctt 360  
ttcaataaaaa acataacttgg tctg 384

<210> 2835  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H10

<400> 2835

gaattaaagg gtcgacgcac gcgtcagcgg acacgtggc ggacgcgtgg gcccacgcgt 60  
gggttcctag tggtatgttt acagaggaga ttgatcgata tactggtttc gagcaaggag 120  
ctatcaattt aacttggagt tatgatgcct ttgttactgc gtttggtca agagaagatg 180  
ttcacaaatgtt ttttctaaa tattgtgaac ctccctctcc acctctaccc agtacgccag 240  
gacctggtgg tttatcttct ccataataag aggacttgt gcactttgga tattttgtg 300  
gttcacataa agacaagctt tattaagaag c 331

<210> 2836  
<211> 223  
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H11

<400> 2836

cgtcagaaaa aaaataagca gaacacataa gcagacacaa taagttccta ataataagtt 60  
tacaaaaaga aattgatcaa aataaatgag tttcaaaca agaaaaagg ggtctacctt 120  
aaagtttcta agctttgtt acctcgagtt tggtaatat aactctgttg aggtgtcccc 180  
aactttcaat tctggggccc ctttttaaa tcttcctact ggg 223

<210> 2837

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H12

<400> 2837

gcgtcaggca ttaacaatca tgggagacac taagcttaag gacggtgcta gtgctgctct 60  
ttggacttgc cgccattttc tctatacagt tgtgttagca ttttcagcaa caataattgg 120  
acgtgatgga aagaaggcag ataacatatg gaacgatgcc cttagattatc atggaaaagt 180  
ggtaacttt tgtcatatt cggcttcgtc tttttttaga agtggcgacc atggcgcatg 240  
taaatatgtg atggcttgg cttctatcag cttgatttttgc ttcttctatc gttgggttggc 300  
ctccattgtc gacgcattgt atccaattct tacaaagttc tggtttgtgg agcttggat 360  
caacatattc cttactatgt ggtggatggt tggtaattt gttgtgactg c 411

<210> 2838

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H2

<400> 2838

gggtcgacct aaggccggt gcgaaagagg acgtggacg gcattgtgga agagcgtttt 60  
gggtcctgga gagctcatgt ggagaacaac gattgtatcc ttgttaagaa gaaaacctag 120  
tcaggggtta ttgaagagaa gtttgcga tcaagttgct caaggctcag aaaaactaaa 180

acttgggttt gcgagcacct acacatgccc ttcgaaagga tgctctcgta gatatggtag 240  
tgttcccaagc aggttagtgaa agggtgaaaa tagttcggtc aacatgtgcc tacagttgtc 300  
caactgaaac ctgggtgttgt gactgtcgta gaagatggca aggaggacaa atattttgtg 360  
agtagtggtt ttgcctttgtt taccaaagaa cgaacagata ttttg 405

<210>	2839
<211>	399
<212>	DNA
<213>	<i>Cyanidium caldarium</i>

<223> Clone ID: LIB190-054-Q1-E2-H3  
<400> 2839

agacttggta aaataaaagca aggagatcca ctcattttgg agactatggt gggagctcaa 60  
gtatctactg aacagatgga taagattctt cactatgtgc aattgggaaa gaaggaagg 120  
gctcagtgtta ttgttggacg aagtggaaaag aaagctattt gaggtgattt agaagggtggc 180  
tattacattt aaccgacgat attcaaggga gataacaaga tgagaatatt ccaagaagag 240  
atatgtgggc gagttctgag tgtcacgact ttccgtacag aagaagaagc catccaaatt 300  
gccaacgata ctgcgttatgg ttttaggtgct ggctgtgga ctgcgagatat tatgaaagct 360  
tatcgcgatc ctgcgagcaat caaggctggc cggtttttgg 399

<210> 2840  
<211> 283  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H4  
<400> 2840

cgcacgcgtc cgccccacacg tccgccttcc tacaatcaat attcttcttc gtacggttcc 60  
tctagctatac gtctcttaac tgcagacgaa aaccaacttg tgagcagagg aggttatgca 120  
ccaacaaacc aatgtattct agttcctatac caatgctgca ctgattgcaa acaatggtagc 180  
gccgcatgga gttcctaaat actgatacag tgctcgata gaaagaaca gatataaacg 240  
gatgtttgtt tctgttgacg tgaataaaaac ttgtgttcat aac 283

<210> 2841

<211> 382  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-054-Q1-E2-H5  
  
<400> 2841  
  
agcccacgca tccgcccacg cgtccgatcg ctataggaaa gtgagcaata cagtctcaa 60  
ggcaacagct ttaacgttgt cgactgctgc agtaattgga aacctataca tattcgcaaa 120  
cttgctcagc atagttcct acagaagttc aaagaaggag ctgacggaag ccagtagtac 180  
tcagggaaaac tgagaaacac aagttgtctt cacgtctgga ggtggaaag atgagcggaa 240  
actaggctgg gggctgttc cttgtagaag ctctgggttt ttgagaactt gcaattgttt 300  
tgttcttgt agtaaagaaa ttgtctcgt tttctaaaa aaaaaaaaaa aaaaaaaagaa 360  
aaaccgacaa acgagacgca ac 382  
  
<210> 2842  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-054-Q1-E2-H8  
  
<400> 2842  
  
agcggacgca tgggggaaag gtgaggcggg aggttggtaa gagagtactc attgtgctt 60  
gcctgaagga ggatgagcac tatctcggtt tctctcaaga aaccggata tgattcctt 120  
ctagggtttgc tccccataca aggtattggt ttgtcaccaa ggaagctatt caatacgtgt 180  
tgtgctcgac cgaggagagc ttggacctct ccaaccacca tagagtgtat cgagacagc 240  
gtcgaggagt gggtcgtt taaagtattt cgttgtggag aagaacatat atttctaggc 300  
cctatcaaca gcttaactgg ttccaaggca ctgcctatcg agatanaaag ccaactggat 360  
gccgacttgt tgcgttctgc actcggattc tatcgcaagc aaag 404  
  
<210> 2843  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-A10

<400> 2843

cacgcgtcag gtaggtgtgc tcagtcagaa ctgcttctca gttagttacg caatatgcct 60  
agtcatataagg aacaaaataa aggaattaaa atatcagctg acggttacgc actaaagttg 120  
agcggttattc gggtggacgt agacggcagt ttggtcacta tggtgacgc agacgacctc 180  
agagccctca tgTTtaagga aagcctcaag gaaaagtcaa agctgcata cccaaaattt 240  
ttcaaaaagct attatgagga gaataaggac tactttatt atatgactca tacggagaaa 300  
aaaatgtttc cttctctgga agttgcacga aaatacgcta ctctggggaaactcgaaa 360  
ctgcagaaat atttggacaa agtcatttag cacgaacacg catactaagg gaaccaacg 419

<210> 2844  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A12

<400> 2844

agcccacgcg tccgccccacg cgtccgattt cattccgtgt ttttgttacc atttgttcaa 60  
gagattcaag taaggaattt gggatttcgt tttatgacac ttttgttatg tggtcggta 120  
tcagaactta gcaactggct tctcgatgtt tcactttacg aattttgctg gccttcgata 180  
ataatcatct ctctaggatt tggttgtgc cataccagat atgagttga atggtagct 240  
ggattttttt atggactcat ggTCAGGTG gtcgctataa aggataaaaaa tgtcataaaat 300  
gcaatccagt ccactgtatc acaaaccctt gttaaatgt ttacatttt atgtctggta 360  
acttttattt gtggtagttt gactttgcaa ataggtttc actatttggtt tg 412

<210> 2845  
<211> 434  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A2

<400> 2845

agcccacgcg tccggacaaa aatagataga cagaacaaga ctgttgatgt cagagattt 60  
gagaaaaata cgagctacca ggagaatata tttatcttc tccttcacc agtgctgaa 120

cctattcgtc cgaagctgga aggaatcgat cttagatggcg tttactccgt aagagacata 180  
cctgatgctt cgcatattaa agaatggatt gccaaaata atgctaaaag tgcagttgtt 240  
gttggaggta gctttattgg tttagaaatg gctgaaaact tatctttt aaatttaag 300  
gtccatgttag tagaagctct ttctcatttg atgcctgcaa tggatcccga aatgttgct 360  
ccactataca gaaagatgga agagcatggt gtggacataa ttttcatga tggattgaaa 420  
agtatagtga agga 434

<210> 2846  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A8

<400> 2846

agccccacgacg tccgcccacg cgtccgaaac acaagacaac aatgtctcggtt cccaaatgttt 60  
tctttgatat tgctatcggt ggacaacctg caggaaggat tgtattcgag ttgttctccg 120  
atgtcggtcc taaaaccgacg gaaaattcc gtgcctgtt taccggtagg aaagggtttg 180  
ggtacaaaga ctccaagttt cataggatca ttccccagtt catgtgccaa ggtggagact 240  
ttacacgacgg cgttggaaacc ggtggcaaga gtatcacgg caccaagttt gaggatgaaa 300  
acttcaagttt gaagcattcg gagccctttt tattgtccat ggccaatgcc ggaacgaata 360  
ccaaccgaag tcagtttttc attacggtag tgaagacacc ttgggttggat gggaaagcatg 420  
tgggtgt 426

<210> 2847  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A9

<400> 2847

acaacatcac attgaaacac ttcgaggaca cgaacaagaa gtttgtgggt taaaatggaa 60  
cgtcgatgga actcagttgg cttctggagg aaacgataat ttgttcatgg tttggataa 120  
tcttcactcc agtcaaccaa aatatcggtt agatcagcat cttgcagctg taaaagccat 180

tgcttggtgt ccttggcaat ctcatttact tgcaagtgggt ggaggaacag cagatagaac 240  
gatcaagttt tggataacta caactggctc ctgtttacag tccatcgata caaaaagtca 300  
agtatgtgcc ttgctctgga atagacatga t 331

<210> 2848  
<211> 418  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-B1  
<400> 2848

agcccaagcg tccgcccacg cgtccggtca agtggtacag tcggaacaag acctgaaaag 60  
ctgtttggaa cttagaaagc taatattcgt tcaagaacaa ggagtttaggg aagatagaga 120  
gcaagatgaa tacgatcgag tggattcaac cgttggaaagt ttgggtcccc gatggaaagt 180  
taaacacttc ataaccttgtt tagttaacca agtgggtgca actggtagag ctcgtcgtaa 240  
ttcgatgttt ggaataaaagt tagaaagaat tgctgttcga aaagaagaac gtataaagca 300  
cattggcgaa acactgcttc aatttatgtt gagagaaata cagaagaaaa atgcggctat 360  
taatttgcac tcgcagaacc ctgtggttac gttttatgag agtttgggct tttcaact 418

<210> 2849  
<211> 115  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-B3  
<400> 2849

caggtatcac cctaagctac ttgatcttat gctgtccaag cgaagtaatg ctgaaccaat 60  
atctgtggca aattatttgc aagatatcgc ataaagctt agatgccact caatc 115

<210> 2850  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-055-Q1-E1-C10

<400> 2850  
ccacgcgtca gtcaggaagc gatgaaagtg gaaaatttat gtcaaggta tatccgctgg 60  
tgtgcctttt ggtaacgctt ggtggcac ac caaaaccaga gtatgtcaag tagtggaaa 120  
aaaagtattc tcctaccgaa ccatctcaat gtggagaaac caccctgttg tccatcggtt 180  
aaaacgatata gtctccactg gattgctcga aatactgcac gcgttaggtga actggggat 240  
gtaccggatg agttgatgta caaagtttgt tgtttatgtg gagcaaaaga cttggcaaga 300  
ctggaagaca acaaccctgg aagagaagca gtgtntgaag cactgtggc agcgttgtt 360  
aagcgagatt ttagtangga agaaggaaat gaaagcccat cacaacacca ccatgtggca 420  
agt 423

<210> 2851  
<211> 141  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-C3  
  
<400> 2851  
catcatgcat tgttagagttt gcatgtgcta tatcagtaac aatcgactat agataactaa 60  
agtcatctgc acacgtggtt atcggatgcc atggaaggcg cagagtccac tgacgtgcat 120  
ttgattcatg gatcgacgtt a 141

<210> 2852  
<211> 287  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-C5  
  
<400> 2852  
cggggcgacc caagcgtcag aacacgcgtc cgcccaagcg tccgcccag cgtccggata 60  
attttgtaaa taaagtgcgtat ttttcctttt caaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 120  
aaaaaaaaaaag aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaggg aggaagatca 180  
aaaggaataaa aagatttaggt aagaaagtaa gaaaaagtga aggtcttcaa agaggttact 240  
gaaaggaaat taacgggcgg tagttaaaaaa aagtcgggag ggggaaa 287

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<210> 2853  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-055-Q1-E1-D11  
  
<400> 2853  
  
acgcgtcagc ataagcaaat cattaaccgg aggaaaagaa acaaactgga attcccctat 60  
tatcggcgag cgaagcggga agagccacta tgagaatcct cctttcctt tgtaaaaga 120  
ggagatgtat ttgaaaaaaag acaagaaaata tctgcagcaa gaaaagagca aatttcctgg 180  
aatggaatat catggagggt gagaatcneg tttatctctt ttcttgtat tcaagctgcg 240  
ttacgatatt ttttgttg gagtcgggtt gtttgttagt acagcctaa ttttgtgggt 300  
gttataaaatc atccaaggct aaatacgtaa agagagaccc atagcgaaca agaacatgag 360  
gaagaaagag gcaaatacgg gaaagcagta aaagaagaaa gagaaggaa aaaactgag 419  
  
<210> 2854  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-D8  
  
<400> 2854  
  
acccacgcgt ccacctacgt ctctgcagtt gagtggaaagt gcgttgtatt tggcaatgtt 60  
tcaacggta ctgacgtact tgagtgc当地 tattctcaca agacattgtt caaagagtgc 120  
ggaagtgaca tt当地agttt tacacgatca ct当地acttt tcttgagca tgaatggag 180  
aaataacgtg tatgctgaat ctgttgtgt gt当地attga agaatgacat tt当地ttctg 240  
ctgatgtaat ataatttaca tggtttaagt tt当地atgta tcatgtacag aaatctcgt 300  
atcaacttac gtcatttctc gtacgatctt ggtataggaa tacca 345  
  
<210> 2855  
<211> 178  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-E1

<400> 2855

acgcgtcagg gaaaagaagaa ggtaaaggaa gagaaggaag aagcagagag ggactatgag 60  
cgaaaatgtg gatagtcgag agggaaaaag cccagaagcc aagataaagt atcaaagtta 120  
agaaaaggaaagg aaaaggagaa gaagagaggg taagctaaa agcaacaaac cagagaag 178

<210> 2856

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E11

<400> 2856

aggacgggtt gtttggtagt acagcctaa ttttgggt gttataaattc atccaaggct 60  
aaatacgtaa accgagaacc ttacctctcc aagaatgtgt tgacggctg tcgaaagaac 120  
gtgctgtgaa gtgagagaac gtacgagaaa gccaaatgtg gaaaagaagg caagtagagg 180  
gcggccccag aaaggagagg gcgttaagacg tgatacagag taagaagaaa agagaagaga 240  
accagaaaag aagttaaaaa aagattaaaa gactaaaaga agtacggaat tcacgaagaa 300  
cgagcctgaa tgaaggagga atcccaagta atcgaagaag aaaaagcttc ggtgaaagcg 360  
tgaacggatt ttgtacacac tgccgtcaa gttctggaag tgtgc 405

<210> 2857

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E6

<400> 2857

agcccacgcg tcgcgccacg cgtccgctca gtacttgtct gaattctgca gaaggaaatg 60  
ttacggttga cttgtcgccg cagtgttagt tgaaggatat atttcattt aagcttctcg 120  
acaataactt taagttggcg tgtttaatg atgcctgtt ttttagttt ccaggcttat 180  
cctttgttat tactggtaat cgtatattct gtagacgctc ggacttgaat gaaacggaag 240  
cattggagtc ctgctttcg tttatgaaga tatgcacccac gtacaagtgc ttggagattc 300  
ttttggaagg cgagcaaatt tatgtagaag aactcgtgcc tattgtatcc cgtttcgttg 360

aagaacttcc tcactttctt tttgacaatt ggaaaaccgt aagttacggc tctccctcg 420

agaagg 426

<210> 2858

<211> 155

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E8

<400> 2858

cgtcagaaaa ttcatccatc gttgctca ctgttgcat atatgacatg tcgtcgtag 60

cgtggtaaac gtttatgata acgacgtgca taccgtcatt ccatagtctt gggagacagt 120

atccacggaa taatcaaatac agctatccgt cgttt 155

<210> 2859

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F12

<400> 2859

cgcgtcagca gacgtacaaa agtttggca caaaaactgc aaaaccacaa acgctcgcta 60

cttgttattaa catgccttcg acgaatgcc aaaaaaaaaa tcccgatacg cgttcggta 120

tgggagaccc caaccaacct ctaggtattt tagatactgc caagtcggaa gagttttccc 180

aaggtcctct ttctttattt gtggattgtg taaaagatgg tactccagtg ttgatcaatg 240

tgaggaataa caaaaagttt ctagggaaat taaaggcttt tgaccgtcac ttatatatga 300

ttctagaaaaa tgtcaaagag atatggacag agataccaaa gagaaaaag gctagaccag 360

tcaacaagga tagattttt ccgaaaatgt ttttacgtgg tgactcggta g 411

<210> 2860

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F5

<400> 2860

agagtgcatt ctcaggaaa gatacaaaca tatgttgcca acagagaatt actgctggat 60  
atgtgcattcc actcaaaacc tgggttagat gtaaaccaaa agaaacaacg gttattgtca 120  
ttcttagcta gtcaggagcc ttgttatctg tggagaagaag aagatcgtca tcaagaacca 180  
caaatacgata gtttatatat ctctagtgct gggtacaagg cgatcattt aaggacaag 240  
atgttggg ttcacaattt gtcacatttggat ggagaacaac ggtgggtga tggatgagaa 300  
taatagttt gcattttca tgtcttccag ttttatattt atgtttt 347

<210> 2861  
<211> 274  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F7

<400> 2861

aacagtagct tagacagtaa catatgcttc tagttcagc gaacgggtga gtaaagaagt 60  
gtgaaagagt ggcagaccat gaacgcacag accaatgtta gaaatggta gagtaaaaac 120  
caatcatgga ttatagcggaatccgata cgaaggaagc cgtaatggaa ctgaaaagtt 180  
gtccaaacaa ggaatttcag cagtgggat attggccaa tgtacaggaa agtatgaccc 240  
agtgttgaag agtggagtaa gcagaaaggg aagt 274

<210> 2862  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F8

<400> 2862

aggggatgtc gtcgcaaccc gtcttagtgc ttgcgactt ccaaatgtat attatgggtt 60  
tcgttcccccc tgagaagaag gaagccgtca ttaaaggagc ttgcggactt ttgaactttg 120  
cccggtgagaa gaagatccct gtagttcatg tgggggtacg ttttagaccc ggacaccctg 180  
aagtttcgaa acgaaacaag atgcttctc ttgtttctc cagaggcccc atccttgtgg 240  
aaggtaactcc tgaaagtgcac cacgtacgag agttgaaacc aattgaaggt gaattcagtg 300  
ttacaaaaag aagagttggg gcacattata ataccgatct tacaaccatt cttggccgt 360

tggggcgcta cccacacctgat tttgggaggt gtttctacaa gcggagttat tctgtcgacc 420  
gttcgttg 428

<210> 2863  
<211> 439  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G1

<400> 2863

acgcgtccgc ccaagcgtcc ggtgcaacga tggagaaaagt ggcgaaggaa aaccgcttga 60  
agaggtgcaa acaggaaac ttttgcgtt attatctgaa gaactttgta aagtatgtat 120  
actggaaaaa gttaccgtga agagtttagg ccaacaagaa ttggcaactt tttgttcgt 180  
caactccgcc ttgggtctgca aaatagacct tgaaagtcat tctagagcga tggttcgcgg 240  
tattttcaga ctcttgcgtt ggaaatattt ctgtaacaag tttggaaaaa ggaaaacaag 300  
tatttacttg gttgtattct ctgagaatgg atttttgcg gggaaacgcac ttgtcggag 360  
accaagttcc aatggtccac ggatcactgt gcaacaaata ttgattgcta tacgttcccc 420  
atttgctggg ttgttagat 439

<210> 2864  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G11

<400> 2864

ccacgcgtca gtagatgaga cgcttgaacg aaaactacgg agatagacat accaacaaaa 60  
catcggcgac ttgttccgtc gttccaagaa attgtgccgc tgtggtttc aagctatttc 120  
aaaaactttg gggcatcttt tcaaaagcct ttgtccaatc gcccgataac attcggttcca 180  
tagctatctg ttccagttgg tcaatccaac gacccagcga catggcacgg tgctgataaa 240  
agtacgttgg actcaaataa ataaccacca aaaaaaaaaa aaaagaacta aaaagaaaaac 300  
aatcaaaaaa aattcggagg aaaaaccaca agatcaaac aaaaaataca gatgattaag 360  
acatcaaaca aacttctata attctaaaaa aaaagggggg gccc 404

<210> 2865  
<211> 458  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-G4  
  
<400> 2865

cggtcaggaa tatcgggccc agccacgcgt caacccaagc gtccgaaccc gtgtagtcta 60  
tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcat tccaccaggg gagtaaaggc 120  
gcaagaaaaga aacccaaagc aattgacggg aatcgaaaaa aggggtggat cacgtaaatt 180  
aatccgatat aaaccgagaa ccttacctct ccaagaaggt gttgcacggc tgtcgaaaga 240  
acgtgctgtg aagtgagaga acgtacgaga aagccaagtg aggaaaaagaa ggcaagtaga 300  
gggcggcccg agaaaggaga gggcgtata cgtgatacag agtaggaaga aaaactttt 360  
gcaaatacac gaacaatgcc aaaaaagaaa aacctctcgt cgtaaagaaa agtgtacaga 420  
atcttctatg gataaacgga ccaaggaaat atacttgg 458

<210> 2866  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-G5  
  
<400> 2866

agccccacgcg tccgtgtgtg gtgacttgga tgaaaactta tctctttgtt ccgtcttgg 60  
cttgtctttc tacaaaactt gcaagtggaa aacaagttagc agttgattca agttggaaaa 120  
gatgtggaca gttcaaggga aatcggttcc tcctccatgc tgctcctggc actcttaaca 180  
aagcaaggtc caggtttct gttccatga aaaccgaagc ttggtaaag ttgataaaaa 240  
ctgagcaact aaagccggga gacttggaaac ctttttcgt tgctggccag tctttgctag 300  
tagtatgtga ctatgacgggt caagtatact gttctgccaa cgtttgccta caatttggaa 360  
caacaattgg atcaaggaac ggtatctagt ggttaacttga tatgtgccca gcataagact 420  
tc 422

<210> 2867  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G9

<400> 2867

ccacgcgtca ggaaatttggaa tttgggttttg tgacaaggat aaagcaaaca gtgcacctgt 60  
attattatcg tttttgttgt tggtgttaaca gcctgtgtct ctctaaagag tttcttgaaa 120  
tgcagagagt tggattgggtt ggtgattcgg tcaccaagct tcacttggta aggccgcagtt 180  
tctcgcaata tgcaagacctt tggaataatc ctgaaggaat atatgccttt gttcgacgtt 240  
gaaaagattt gggctcccta cccggtagag aatggactaa tgatgagcta agattaaaat 300  
cctttgacga cttdgcacaag ctgggtggg tccttataaa ggaaagaaac gctttgttaa 360  
ctgaaagaga ctgggtg 376

<210> 2868  
<211> 97  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-H1

<400> 2868

acgcgtcagg agggataat gtcaaaataa aacagaatga tatgaccccg gaaagttttt 60  
ctgaaaaaaaaaaa aaaaatccaa caaaaattcc atgcaaa 97

<210> 2869  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-H10

<400> 2869

acgcgtcagt gatgggtggaa gtagcgaaac aagagaagg aagtaaaagg taagaaagag 60  
gaaaggtttca cgagagaagg aagttagaaag aagagagtgt aaggcggcgt cataatagaa 120  
atccgaaagg agttagaagaa aagagagaga agaaagaaaa gaagagaaaa gccgtactga 180  
agaccgacac agtactcga ggagaaagga gacccaaatt aaggtgagag aatggacgt 240

aaggaactag gcaaaaggat atggtatctg cggtagaaca tatgaaaagaa catgaggaag 300  
aaagacgcaa atacggaaa gcagtaaaag aagaaagaga aacgaaaaaa ctgagtatac 360  
ggaagaaaag agggagtaga tgaggacaga aagatcaagg aagtaagagt aagagaagga 420  
gtaatg 426

<210> 2870  
<211> 228  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-H3  
  
<400> 2870

agcggacgcg tgggtttta tggaaagata taccgagtca tttattgaag aacttgacca 60  
attttgtat tgtattctgc atgacaaacc tggccagtg acaggttggg atggaagagc 120  
tccagtcgtt attgcgttgg ctgcgaagaa aagttatatg gaaggacgtc ctgttcgcac 180  
agaagaagtg gattatagtt tgtcctagta aagtttgat tatttttg 228

<210> 2871  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-055-Q1-E1-H5  
  
<400> 2871

agacttggca aaagcaattt ataagagaat gtggccacat tcgcatacac ctcttcgaca 60  
gttttcatct cagttacctg aagaagtact gaagcgaatt gaaagaaaga cagatttgg 120  
aattgatcaa taccttagatt tatctccagc ggaatttagga gagtttttc gaagtccaaa 180  
agatggcaag acgattcattc gccttattaca tttattgcct agaatggaat tggctgtcca 240  
tgtacaacctt attacgcgct cgactattcg catggaatttgc actttgactc ccgatttcct 300  
tttcgattcc aaggtacatg gagcaggaga accttttgg atctgggtcg aagatcccga 360  
tggagaaaaaa ctaatgcattt tagaacctttt tttctgcgag cgagtttaag tcaagaggag 420  
catacag 427

<210> 2872  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A1

<400> 2872

gagtgtgcgg cctgccaaat agtagagaag aaatcgatga aagtgaaagc gagtaaaaga 60  
tgaggtatag agaatggcgg tcctaactgt aaggatccaa aggtagcgaa gttaatagac 120  
gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag cactgtctag tcgtccaact 180  
cagcgaaaca gcaataactg tgaaaatgca gttaaactagc agtaggacgg aaagaaccca 240  
taattcttga cttagatacgt ttacggaaga gagagaatca tgaagttagag gacgtgggt 300  
aagagatgag agaccactgc atgaggataa agaatctaac tgagtaaaga aaat 354

<210> 2873  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A12

<400> 2873

agcccaagcg tccgcccacg cgtccgattt catcgattgt ggtgagtgtt gtggttccgt 60  
ggcgtcgtcg tggggtgat tgggtttgtt gtgtgtgtgt aaggaaaccc gatgcaaaac 120  
gtgcaaaaga aaattgtaga tcttatgtt cctagaaaat gtgctgcttc taaccgaatt 180  
atcacggcaa aggatcacgc ttctgttcag ttaactgtag cacaagtaga tgcgcaaggt 240  
cgagtgacag gagaaacaac gacgttgct ttgagtggat ttattagaac caagggatta 300  
tcggatgcag cggtcaacag gatatgtgaa gaaaaggac tgctcaacga ccttcattag 360  
aacaactata aaacaacaat agcgaaaaat ttttggatgt 400

<210> 2874  
<211> 379  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A3

<400> 2874

cccacgcgtc aggtttccg aagcattcag tctttatcgtaattgattttaactcttcc 60  
atttgtctcc gtagtggacg attcgcaatg cagtcttgc atggaaatgc tgactacttg 120  
tagagaatat atcgtcggac tgatgattcg taccaaacaacggaagcca aatccaaagg 180  
agatttcgtc cgacagttgg aattggcagc gctcatgaag cactgtaata tgtcgattac 240  
gcatcaacat ttggcattgc aagtagctat gaaatttagct tattctacga agaactatcc 300  
tttatgcgtc gaaatttgcc gatcgattgt tggagttggc acccaatgaa gatatggaga 360  
atactgccaa aaaagtgaa 379

<210> 2875

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A4

<400> 2875

atcgacggag cagaatattt aagaaatcat cccaacacct tcgatgtgat cataaccgat 60  
tcttcgacc cagttggtcc agcagatgtc ttatttcaaa gacctttta tcaaagtctc 120  
catgccgcac tcaaaccgga tggcatttgc gcctgtcaag cagaaagtat gtggctacat 180  
atggacctca tacgttcttt gatggaaact tgtcgaagta ttttgcttc cgtggcttat 240  
gcttatacta tgattccttc ttatccagga ggacagattt gtttcgtat ttgctccaaa 300  
tcggtagtg atagcttgac gaagcctcta agagaaccaa atgcagttac aactcagtcg 360  
ctgaaatatt actgtcctga gatacatgac gggcatttg tattgccact cttgcaaaag 420  
aga 423

<210> 2876

<211> 355

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A5

<400> 2876

accaatacta tttttcttc aaaatttact tcgacacaaa gcctgaacga ttccaagacg 60  
gcgcagtaat cttgttctcc acggtagctc gcctcgacag aaaaagacat gttgagctgg 120

ctacaaaaaa accacttgct agttgcaata ttacaagtgt caagaatgtt tactctttat 180  
cgagtcacag tgcgtctttt cccctaattct ttcttttcg gtgtcgacga gtgcgttagac 240  
atgtcgtctt ggtaacgcaa ccctctattg acactctacg tttcctgtgc agcgtcgaac 300  
tacctaaaac gcaaaggcagc aaagtcccaa agtttcgact cctttggtt tctcc 355

<210> 2877  
<211> 418  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A6

<400> 2877

agggcgctgg tatggattta ttaaaggatg aagttgatat gtccaaaaga gatgcttcgg 60  
gtaaagtatat ttgcgccaaaa ggagaacttt cctagacgac gccacttgtc tcaggtataa 120  
tcaaaaatgcc agatattgga ttgttcttga aagaccacat cagtgctgg tttaccgagc 180  
aagtacgaat ggaataact ctcaagtata ttgatcctac ttatatgatt cgaagtatac 240  
ctgcaaatgc aagtgactgt ttgatgtgtc gtttattggc ccaatcagcc gtacatagtg 300  
ccatggctgg tcgaggggtga gatTTCTT CTTTTGTT gtcacaggaa ttgtttttgg 360  
taattgctga cgatatggat tcttagtggtt ttacaattgg agttatcaat acccaata 418

<210> 2878  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A8

<400> 2878

acgatgacat ttctcaccaa aaaagatgtg gaacattgtt tcgatgtgat atggtttagc 60  
atatttgata tccaatattc ttgtttatgt tcttgaatg ccttgaacca gatgtgtcga 120  
acctacagcg tgtctgtgcc ggctggcgat gactttgaat ttccaaactc tccttgctta 180  
agtgactggg atctcgttca ttttgttcc catagcaacg aacctgtatt tcgtgtattt 240  
cacaagtgc a tcatgtgctg cttttagaa caaagaatac ttgtcttcg ggatggcctt 300  
tgtatactga acaattccaa cagctggttg ttgttggatg ctttgcgtga tatccaaaaaa 360

tatgaaacgg acaaagaaaa cccgttcttc tagtttttg ccgttgtca agcgatgtg 420  
aat 423

<210> 2879  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A9

<400> 2879

agagtttgt aggagatagc aaaggatatg aaaatttttag tcagttaaa gcgtgtgtc 60  
gactatgctg ttaaagttcg agtaaaaccg gacggttccg gaatagatct caacaatgtg 120  
aagatgtcaa tgaacccgtt ttgtgaaata gctgtagaag aagcggtacg tttaaaagag 180  
tcaaaaatgg catcagaagt tggtgttgct actgtgggac cttctcaatc ttctgaacaa 240  
atccgtactg cgtagctat gggtgctgac cgaggcatac atgtcaagt ggaacaggag 300  
ttgccgcatt ccgtcggttc aagagctta aaggcattt tactaacgaa gacaccaagt 360  
ctagtaatat tacgaaaaca agcgatagac gaccattgtt accagactgg tcaaattttg 420  
gggcaac 427

<210> 2880  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B2

<400> 2880

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tcagtagtaa tgagccagga ggatgaggac aaggacaaac ttacgcttca cttaactat 120  
tggattgacg catatgcagc agtacaagaa gtgatcacaa aacggttggc tgacatcatc 180  
catttgcgtga gccgagaaaa gttcacgct cgccgtgggg gagaaagact agatgtgctg 240  
ttgttggacc agcgacctca tccagcgact tgtaagtgtca ccccgaaacgaa aaagagttt 300  
aacgcttcaa cagattggcc tctttccacg aacctttac agcatttctc gtggagtgtt 360  
attcacgaaa gcaaagaatc ggatttagaa gagttttgtt tatcaacgac 410

<210> 2881  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B3

<400> 2881

accacgcgtc agcgatgatt cgatgcggca caagacagtt gtgggtggcaa ctgcgcgc 60  
gttatcatac aactactact gtccatagag tagcaggaga agaagaaaag gaatcggtcg 120  
gtataaagcc caaacgtttt catcagcctc ttggagttt tccacaagga accaatctgg 180  
aagaagttag agaaaaagtgg caaagtgacg ctatgaaact tatctcgaaa gtacctccga 240  
tagtagtcga tggctatgtc atagcgtgta atggaggcgg tggccattt ggacatccaa 300  
tagaatatat tcgtttggaa gcaccttatac cttcaacttg caaatattgt ggtttgcgat 360  
atatcaacaa agacactttt gaaaagtggaa aaaa 394

<210> 2882  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B7

<400> 2882

cccacgcgtc cgcaaacggg aggagcgctc cgttcctcct gctgcagcaa catggcaat 60  
gacatgaaag ccgagttgta atgacatgaa aattcggtaa agtcagaaat cgaattggaa 120  
cgaatccctgg aagtctttt atgaacttca ctggacgaag accaggatgg cggtggcatt 180  
ctctgcgttc catctgtact actttcagtc tcacagctgt ttaaactatac caaggaagat 240  
ggatactggt caaacatttt ccttcagta gacattgcta cctttccaa tccaccatgc 300  
tcaggaattt aatgcacatc gcccttattga tgtctatttag ctaatatctt tgaattgcag 360  
cttaagcaat accttggaa tccatttgct agtttgacat tgctctaaa 409

<210> 2883  
<211> 440  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B8

<400> 2883

gggaataaaa ggtcgcaatg gaacagcaca acaactgaac agtcatgttt tttatcgtgt 60  
ccaatattgt tgagcacacgc gttccacagag ttgggttgttc aagtttctta tcccgaaagt 120  
atatacaaag tcctccgaag aaacgttgtc ctgttttagc gagtattttt caaagcttct 180  
tccctgcgga gagcaacact tccaaagtag tgcaactgga agcttgcatac atttctcact 240  
acgcacagca agctgtttt gtggacaaca tggctggaga agcacgaacc ttagagaatg 300  
ttaaccttga aatactggag ggagagttt tggctgtcat cggtgagaat ggctccggaa 360  
agagttcttt gtgaatatt ctggccggac tggacgtacc tcatcaaggg tatcccaaatt 420  
ggtatggcaa gaagatcaag 440

<210> 2884  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C1

<400> 2884

accacgcgtc cgccccacgacg tccgcccacg cgtccggcgtc attccaagta gcgcgtggcga 60  
aaagtgaacc ggggggtgata tacataggc acttaccgca tggttttac gaaaaccaac 120  
taaaggcgctt tttctctcag tttggaaccg tgctgaaagt tcgagtgccca agaagcataaa 180  
aaacttatacg accaaagggt tatgcttttgc tcatgttcgc gaaccgagaa gttgccgaaa 240  
ttgctttag agctatggac ggttatttca tgtataacaa aattttggtc tgtaaaatgg 300  
taccaccaga gaaagttcgc ccgaatatgt ttagaaagtt cgtgaagatt ccctggaaaga 360  
agctagaaaaa gaaccgcgtt gctttggcgc tcac 394

<210> 2885  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C2

<400> 2885

tggttggttg gttgcgccc tggagcattc gatgaacaaa gtattggAAC agctgttaggt 60  
atagtttgt tgcaacatgg tgcacatatt cacttgaaaa aaggccaat gagccaaag 120  
taaaaggata tcttggtaCG gattggaaAG ggctgtgtat tgcgtgtgag ttttttGta 180  
ctgggttta ctcacgtcac taaaggAAC tcgttagcaag gggtgtggcc ccgtcgCAGT 240  
cttcaggTTG gatcacaAGA tttagCTGAAG ctTCacttAT gttgagAAAC gatATgAAA 300  
gtgatgAAAAA gcaaccACCT ctcgttCAAG tcgattGGG AAAATATGTT gtagcaATAA 360  
ggcctatgga aaatgtAATA atgg 384

<210> 2886  
<211> 283  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C3

<400> 2886

agtgattgga aagatAGCCA aagaaAGCTA ccaactggaa gtagttggTC tgacaaggTA 60  
gctcgTTCTG tgccTAGTTc tattgcACAA caacAAACGA attcggtacc tacggacAAA 120  
agaaaggAGT cagaACGAGT ccattttCC attggattt gggactacat agatcAGTCT 180  
ctggAAACAA aagagTCGAA gcctccAAA aaggAGCCTA cttcctcgac aaAGCATTCC 240  
gttgacAAAT acgaatcgCT agacaAGAAC aagtccTTG gag 283

<210> 2887  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C5

<400> 2887

agagtgcAGT gaagGAAGCA ggtgctATTG gtgacgAAAT ttccaaTGCA AAAAATGGAA 60  
cctcAGTgGA acatgAAAGC cttcctgAGG aggaACAAAGC aactgtggAT cctgacaAGA 120  
tgagtaAGCG ctatAGAGCA tcctggTTA taactgCTGT acttattGCA gctgAAACGG 180  
cttcttCTGG aatgttatCT cttccCTCTG cggtacAAAC tctaggatAT gttcccGGAA 240  
ctattcttCTT agtgtacttt ggagctgtgg ctacttatac aggttacttG attcacaAGT 300

tctgtgagaa tcatacgagaa gtaagacatt acgacgaagc agctggatt gttcttggaa 360  
gagtttggaaag agaagtccata tatgctggc aaattatcct ccttatttgt g 411

<210> 2888  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C8

<400> 2888

accacgcgtc cgaaaaggag ggtcgacgag ctcagcttga agaacaaga acttgcgtgg 60  
ggttggacgt tatttatgaa ctggactct attgacacag gaattaatgc tcctttgac 120  
ccgtttgcag acgcctcacg tggagaggac gcagcagtaa ccaaaaatat agtgcattt 180  
cgcttgcaac aaagaaacgg ccgcaagtgc ttgacgacga ttcaagggt tgacacaaaa 240  
ttggatttga ataaaattac aaaggccttc aaaaaggagt tttgttgc aa cggttgtgtc 300  
gtagacgacg cagaactggg aagagtcatc caactgcaag gagaccagac ggataaagtc 360  
aaaaagtttc ctatccagg agaaatttagc tgaaaaagac ctgatagagg tgcacggat 420  
atgagttgt 428

<210> 2889  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D12

<400> 2889

agcgtttgg tgacaaggaa agataaatgg tcgtcaaaac agaaacctgt agttttcag 60  
gtttccgcat ctaccccgga aaaggcactc gatttgcg cggggatggc aaactcctca 120  
tcttagtaa ccgcaagtgc aaatcctact ttcatatgcg taggagaccg gcagagttga 180  
attggactca gttgtatcga agaatgcaca aaaaaggaca gcaagaggag acacagaagc 240  
gacgtcgtac gcgcaaagtt gctgctgtac cggaaaccgg ggaaggcgcg tcgttggaaag 300  
tgatcaaagc aaagagaacg caacgcccgg aagtccgaaa aactgccaaa gaagcagcgt 360  
tgaagggaaat ttaaacaacg ccaagctgct gcccgtggaa aaagaaaagg tggaagagga 420

gatgcgac

428

<210> 2890  
<211> 228  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-D2  
  
<400> 2890  
  
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tgcaaccaggc gcaatgaatc gctgcggtca atgcaagctt cgaagcaaaa ccgctagagc 120  
attggccagg agatcgtctt ttgcgttcgg gaaacgcttg atacagaaat cgagagaata 180  
tccttgatgc caagtgaata aagcttatac caacaaaaaa caactaag 228

<210> 2891  
<211> 446  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-D4  
  
<400> 2891  
  
accacgcgtc cgatcatca aatagaggat caaaaagaca cagaacgtcg acagtatttt 60  
gcagttgaca agtatgagaa ctgtcaacta ttgttagactt catttttat tagccatacg 120  
taggctccat caatatgttg atcaaagcaa gagaaaagta gtggttactg gagtcggcct 180  
ggtgacacct ctgagcgttg gtacgagttac tagttggaat agactgattt ctggtgagtg 240  
tgcagtggac agaattcgag cttttgatgc gtcaaggttt cctgtacaga ttgctgccga 300  
cgttcctaga agcagttggg atggttggg tccgtataga agagtgaatt gtaaagtttt 360  
gcacgatgag gagtattttg atgccacaag aatagtacgg ttttctgagg aagacaagag 420  
acagatacca gagtttatac agttt 446

<210> 2892  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-D5

<400> 2892

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tatgttcggt ggagttttg tagccaactg ggagattga gaatattta caatagttt 120  
gtgcagcatt tatccataca gcctctgga agtgtaagca ttgcagaagca aatgcctcat 180  
ttcaaataata ttccaccatt caactctgca ataagtggag ttttagttc cgggaaggaa 240  
ttatacttt tgaatgcttg gaagtcattc tacgataagt atttgcgcga agatggata 300  
ttttcgctcg attaagacag tgattatgga cctagtataa ttattcgagt gactggaaat 360  
tgcttatctt ctctgatga agagaactca tcttcagaac ttggggagtc ggaa 414

<210> 2893  
<211> 142  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D6

<400> 2893

accacgcgtc cggtggaaga acatgaaagc acagaagaat gtaagaaatg gtttagatgg 60  
aaaccataaa ggaagtaaaa gcggaatct gagaggagga aagccacatt ggaactgaga 120  
aaaaggtaaa acaggagtgg ag 142

<210> 2894  
<211> 200  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D8

<400> 2894

agagagttgg ctggaaaagt gtggagagtc ggttttaggg gatataatag tcgtcctgat 60  
gttgttttgc cattgttagc tgcgttcgaa agagcttgc aaaaagggtgg ctatctgcag 120  
tcgcagtgtat ttgttgcct ttcattgtct caaagggttg ttggagtaag tcgcgagcca 180  
taaagggtttg ttttataag 200

<210> 2895  
<211> 305

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-E3  
  
<400> 2895

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tatccgcagt tggatgaaac tcctgcagac cgttcatttg tatttcaagg aggtgacagt 120  
tattctgcaa aaggacagcc gtatccaatg gaaggactct attcttcata ctacggatca 180  
ggcgatattc caaaagcatc cttaacggtt gcagattatt atccgtcttc caatccctat 240  
ttgttggcat cggctccttc gatcgattat acgttagattt attgtaaatt aacacaagtt 300  
gtgtg 305

<210> 2896  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-E4  
  
<400> 2896

accacgcgtc agtgctaatac tttcgccgg ttatgacgaa atcaaattta cgccgcgtcg 60  
ctatgctatt ctgacagta acactgtttc tcattccgtg gaaatattcg aaaaaaaagtt 120  
ttcttgagca aaagaacatc aagtgcgaaac cttagtgcgatt tattatcgcccatttagaa 180  
ataggccatt tgaagagaag ttcataagag tctatttctc acgtatctt agccagttcc 240  
aagagtactc ttatgaaatc atcttgcag aacaaattct ggatgactat cactttaaca 300  
aacgattgct ttccaaacgca gctttcctt ctttggaaaaa tcgtttctat gactgctatt 360  
gtttgcaaga cgctgataact gtgccactta ccaacgagtt gttataccgt tgtcct 416

<210> 2897  
<211> 431  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-056-Q1-E1-E5  
  
<400> 2897

gttgtgttag catttcagc aacaataatt ggacttgatg gaaggaaggc agataaacata 60

tggaacgatg ccctatatata tcatggaaaa gtggtaact tttgtgcata ttcggcttcg 120  
tctgttttg aaggtggcga ccatggcgca tgtaaatatg tcatggcttt ggcttctatc 180  
agcttgcatt tagtttctt tctttggttg gcctcccttg tcgacgcatt gtatccaatt 240  
cttacaaagt tctggtttgt ggagcttggt atcaacatata tccttactat gtggtggtt 300  
gttggtgcaa ttgtggtgac tgcaaagcga ccttcttagtg ttgttatgga tgcgcttcac 360  
ataacgaaag atatcaattc aatcgaaggc ctttcatgga tcaactttgc ttttacgcta 420  
ttcctttgtg g 431

<210> 2898  
<211> 311  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E6  
<400> 2898

agtcggaatc gattgcgttt ggaggagaga gagagagaga cgaccgagtc tttttgcga 60  
cagtgagttt catggtgacg aaaacaacca aaaatatggt tcaagtattt ggaagaaaaga 120  
aaactgcgtt tgccgttagcg acggttactg gttcggaaa aggtctcatac cgagtcaacg 180  
gcgttccctt ggagttggta caaccggaaa tttgcgcataaaatttt gaaccatac 240  
ttatttttgg tcaagacaag tttgcggact tggatattcc gttaaaggc aaaagtgg 300  
gacacaccaa c 311

<210> 2899  
<211> 445  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E7  
<400> 2899

acggacgtgt gggtaagaa atggtagag taaaaggact agaagaggta cgaaattcac 60  
gaggaaggag cgtgaaggaa ggaggaatcc caagtaatcg aggaagaaaa agttcgg 120  
aaagcgtgaa cggattttgt acacactgcc cgtaagttc tggaaatgtg ctaggataa 180  
gcaggagaag tagaagagag tagaaaaagg aagtaaaagg agggaaatgaa gggaaatgtt 240

ggcaaaaaca cgtgccagca gcagcgtaa aacgtgtgt acaaggctag agcagaagaa 300  
ctgggtgtaa aggtcgagta gtagagtaag tgtaaaaggg aaaggaaagg agagaaagag 360  
gaaaggatg aaatgcagag atctctagag aaaggcaaga aagaccagaa aggaagacac 420  
agtaaatgac agcacagaag aatgt 445

<210> 2900

<211> 403

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E8

<400> 2900

agcctcctcc tcctcctcct cctcctcaat cttctataat aacgaccatt actggaaaag 60  
ctattttag ttatgtttct gcgcatttag aagaaggaga tcgcgtattt aatgctattc 120  
gaaagcatac agttcctagt ggtatgttta cagaggatg tgcgtatc actggtttcg 180  
agcaaggagc tatcaatttta acttggagtt atgatgcctt tgttactgcg gtttggcga 240  
gagaagatgt tcacaagttt tttctaaat attgtgaacc tccttctcca tctctaccta 300  
gtatgccagg acctgggtgt ttatcttc catagtaaga ggcacttgcg cactttggat 360  
attttgtgg ttcatataaa gacaagctt attaaaatac cac 403

<210> 2901

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F2

<400> 2901

agccgttaatt ggttagcaaatt tggaaatatac aagaaagggtt gtttcattca cacagagtgt 60  
agctctaata tggacttgaa cccagagatg agtttcgtt tttccgcctg gttctcgact 120  
cctgtggta cgacaacttg agtagcttc tctccttttgc tcaaagcagt ctcttgcgttc 180  
ttcttgcgtc cagtttttgc ttgcgttgc gctgttgc tttgtttttt aaaaagttac 240  
agagtatgtt atccggccctt atttgttgc ttcccttgc caaagaata cgtttttaaa 300  
gcaagacaag gaagccttttgc atgggcttgc agaaaatttttgc tatgcgttgc atgcacac 360

aaacgccccca aatgaacgtc cttgcacaag agagatgg 398

<210> 2902  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F5

<400> 2902

gaggaacaat gcacccata ctgctgggtt ccagtacaga cctatgaaac ttatcaatgt 60  
tctcaagaga agaagaagga gtacagctat ccttgtcaaa cttatgagca ggtttcaact 120  
acttaccagt gtggtcagta cgagtcccaa caagttact accaatgccaa aaagtataag 180  
.gaggttactc agcaagaatg ccagtacgtc caagagtcgt attgtgtcga gtatgaagaa 240  
tgtcagcaag ttacccagga agtttctcct tcagaaatttgc tctactacgg tgaatcttct 300  
tcttagcagta cttacgacta cttagaacact tgtgaaatgc ccaaagtcgc aaagtacagt 360  
cgtctttttt gaagaaactg ttacttttg tccc 394

<210> 2903  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F8

<400> 2903

acgaagaatc agatgttgca aagaaaattc tacaaataac aggtggaaag ggagcagcgg 60  
cagtagtgga tgccgttagga ggagagatcg gtacagcctg ttgttcagct cttgcaaagg 120  
gaggactatt tcaaggattt ggattacaga gcccgtttcc cattcaagtc agtaacagcg 180  
accttatttt caaagatatt gtgatttagag gtttctgggtt ggcattgtgg tttcctaaac 240  
aatcacccca tgcgttcaa gaagtttcg atatgttttag gaagaaaagaa cttgttccac 300  
atattcagaa gatatttcct cttgaagact a 331

<210> 2904  
<211> 189  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G1

<400> 2904

aggacgcgtg agtggcaatt attgaaacaa gaggagcggg ctttggaaatc caaatgaaac 60  
aaaaccgtat acaaacgtat tttatactac ttcttttaggt tgccaatgcc atggattatg 120  
tcgtttgtta ataccgtct tttcttctta gtttggcg agacaaccag gaattatctc 180  
cagtcgacg 189

<210> 2905

<211> 456

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G8

<400> 2905

attccgggc ccgaacacgc gtccatgttg acacaagaaa atgcctaaga aagctgttgg 60  
tattgacttgg ggaacaactt actcttgtgt aggagtatgg atgaacgaaa gagttgaaat 120  
aattcctaatt gaccagggaa acaggacgac tccttcctat gtggcttca ctgacgagga 180  
gcgcctaatt ggagacgcag ccaagaacca ggttgccttgc aaccctcaaa atactgtatt 240  
tgacgcaaag cgccatttttg gtcgaaagtt ttctgtatcct tcggtgcaag cagatatgaa 300  
acattggccc ttcaaagtaa ttgccaagga tggagataaa ccccatatac aagtaaccta 360  
taaaggagag acaaagactt ttgcccctga agagatttct gcaatggttc tgcagaagat 420  
gaaggaaaca gcggaaacgcgt atcttggttc tgctgt 456

<210> 2906

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-H12

<400> 2906

acgcgtcaga atttggaaacg cgtgtttggt tttttacttt gtacttgatt ctgtaaaac 60  
atgtctgacg atattgtgc ctgggttatt gacaatggct cgggtatgggt gaaaggcagga 120  
gttgcagggg acgatgctcc tcgttccgtc ttcccttcca tcgttaggtcg accaagacac 180

caagctatta tggttggtat gggacaaaag gaaagttatg tgggttatga ggctcagtct 240  
cgaagggtta tactctctt aaaataccca atagaacacg gtattgtcac taattggat 300  
gatatggaaa agatatggca ccatacttc tacaatgaac ttcgaattgc acctgaagag 360  
catccagtcc ttttgaacga aacccctct caatccaaag gcaaacaggg agaaaatgac 420  
tcagatcatg 430

<210> 2907  
<211> 433  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A10

<400> 2907

cgacccaagc gtcagggaga ttaaggctga gaaggagcag tagttcgctt ccggagcctg 60  
aaacaaacac tcataatatac atatacatat atttctata gatatagcta ttcttcaaata 120  
ggtttccaaa aagacgaaaa aatccactga gacagtctct tcaagattgg ctctcgttat 180  
gaaaagcgga aagaccacgt tgggcttgaa aagtacgtt aagagccttc gtcagggaaa 240  
aacaaaactc gtggtcttgg caaataactg tcctccttgc tgcgtcac agattgaata 300  
ttactgtcta ctcgccaagt gcaacgtaca ccacttcaa gggataaca tagaactagg 360  
aaccgcttgt tgaaaatact tccgttgtt ctgttagga atttggacc ctggtgactc 420  
tgatattctc aag 433

<210> 2908  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-057-Q1-E1-A12

<400> 2908

cgacccaagc gtaagccccac gcgtccgtct gcctcttctg ttgtagaagg aggggaccat 60  
ggagcgtgtta aatatgtcat ggcgttgttgc tctataagtt tgattctagt ctttttcttg 120  
tggctttta catttgtaga tgcgttgtat cctattctta ccaagtttg gtttattgaa 180

ttgggtatca acgtgttca aacaatgtgg tggttggtt gagaattgt tgcatactgca 240  
aaaaggccta caagctctgt actanacgct ttaaacatta ctaaggatata taatgctatt 300  
gaagggtccat cttggatcaa ctttcctt agcctattcc tttgtggaat tgcaatagca 360  
gatggtttgt tggttggttc aagaagtgc tgctcgaaaa accataatag tggaaatagt 420  
aataatgc 428

<210> 2909  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A5

<400> 2909

ctaaatgcga ggattgtcat gaagcagtgt atatggccga gagaagtgc cggtggatgg 60  
gagcgcggca gatcacatgc gggtgggttc gtgttcagc gtggagagtg gaacttagcc 120  
tcgggaatta cacactgtta gatggagttc tcggttgcag gccgcactt cagggagcag 180  
ttcgttctgc tggaacgttag cgagcaccgg acaggagcgg gggagcgtat cgaggaagct 240  
tcaacgaagg ggaactggac aggggtgtgc gtcacaaaca agtgggggtgg tatcatctca 300  
aactgttaggt aatcccaacg ctaacgatgg tatggagag tcatcgaatg ctgctgtttt 360  
acaaaactagt aacaacgaca atggaaaaga aacta 395

<210> 2910  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A9

<400> 2910

gacccaagcg taagatacgc agcgattcca tggtaaaaga gggcacacgt atattgtccg 60  
atctcaagtt tcaggtgctt caagatggaa aacctcaggt gataacttcg gatcaagtat 120  
tcggaggaaa gaaagtacta ttgtttgggt tacctggc ctttactcca acctgctcta 180  
ggcagcacct tccaggcttt ggacagaacg ttgtatggaaat caaatcgaaa ggagtagata 240  
cagtcgcttgc tttagctgtc aatgaccctt ttgtattaca tcagtggca gagtcacagg 300

gagtggcagg aaaaattccc atgttatcac atgggttgtgc gcaatctgtc aagaaacttg 360  
gactggatat cgataccggt gacc 384

<210> 2911  
<211> 417  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-057-Q1-E1-B10  
  
<400> 2911

agcggacgcg tggatggag tatatggctg tgattgttgt cgttgttgg agaccatggt 60  
tagcgccacc ctcagtagta tgtctagagc cagcttatgg ctcacaaggt tcttttgtt 120  
cacagtcatt ctgcgccttt ctatcgccat agatggagtg atggaaaaaa agggcgacaa 180  
tgtttggaat acaacccttt tatacaatgg gaaagtcttc gactttgctg catataaagc 240  
cagtgcgatg aaggcgatag agtataactt tatacgaaac ccgcctactt gcatgtatgt 300  
catgcgccta gcgtcgacga gcttcatcgt ctatttatc ctgtgggtgc ttaccattgt 360  
ggacgtctt taccggttcc tgaacaaata ctggccggga gagttgttta ccaatat 417

<210> 2912  
<211> 74  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-057-Q1-E1-C1  
  
<400> 2912

ttacaagagc atgtacgagt gtaggaaata tttaaccgcc agattctcac caacaatttg 60  
ggtcgttctg tggg 74

<210> 2913  
<211> 353  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-057-Q1-E1-C10  
  
<400> 2913

gacccaagcg tcagccccacg cgtccggcca cgcgtccgcc cacgcgtccg gtggattccg 60

agcgcttgtc attacctacg ctagtgacg agaccatgga tgccgatgaa agctttcata 120  
tcgtgacgag cgaatttcc gaggatggta cacacacagc tatcgtcact ccacgtacac 180  
aaatatccag tcgtgatatc gatgcacgtg ttggtcgtcg aagaatgaa acagtgagct 240  
ttgacgacac cgtacacctacg catgccttgc aacaagaaga aacagagact gtcgagtatc 300  
aaggggatta tgaatggga tgcattgcgg acaaataatgtt cggagccagt agg 353

<210> 2914  
<211> 378  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C11

<400> 2914

cgacccaagc gtcagccccac gcgtccgata gggtgcagtt gcacttgcag gtccagctcg 60  
cttatcacct tctgcctgggt tatctattga tggttcggga gtatatggac cagctgatgt 120  
gttttaatat tagtgcttat ccagaaagta cgctccctgc ctacagtagc aacacttcac 180  
gggaggatgg gggtttggaa aactttaaac ctatatacaag tcctattgca atgatacgct 240  
cagcctctat gatgcttcgt cattcttgg atcaacctgc agcagcggat ctgttacaac 300  
aagcactgca acgtaccatg gaagatattt cgaatagtga agtttctcac aatggttcgt 360  
ttttggaaatc acgggcta 378

<210> 2915  
<211> 425  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C12

<400> 2915

gacccaagcg taagtgcctt ctacgtgtat atttataag catagcaact atacttggaa 60  
ctggatttct tggccttcca gttacacttt atagctgtgg cttcttcct tttcttattg 120  
tatttactct agtactatatt gctcaagtat gcgtgggttt tgcgtttgtt gaactactac 180  
aacgaacaga cgctccctt gtcaagttat ccaatgagtt gcgaccaatt agtgccatcg 240  
ttcctgaaca agtcgaatca accagtgaca gtgccgtgga ctcagaagtg acggaacgtg 300

cagagcattc ttcaacactg cacgacggta ttcctgttagt agcaggttcg tgaaaactta 360  
tttgctgtt tttgctgatg ttgttaaaga atgcccctgt tgctcccta tttactatga 420  
gtgta 425

<210> 2916  
<211> 444  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-057-Q1-E1-C6

<400> 2916

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ggagtgcgtc cacgattgca gagcactttt ggcttgcgt aacttctgtt gaatttagact 120  
cgacacttgt ttatgttgta ctttgagttt atgagagctg tgattgaacg tgtcagccaa 180  
gcgtccgtaa ctggaggagg aaaggtcgct tccattcaag aggtaggaa ggtgagacag 240  
ggtttagga gtaaaagagta tggagtgcctt ggtctctgca tgcgtttggg cagcgctgctg 300  
cgaagacacg gtaaggagga tcgggttgtt ttatttttt atatttcgg gcacgctccg 360  
ttaggaggaa gatcttgaat acatgttaagt atttgggctc atgtttcgac ctcacataat 420  
gtctcgtag tttcaaaag acac 444

<210> 2917  
<211> 304  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-D10

<400> 2917

gacccaagcg tcaggcgtaa gtctctcaag gccaatcctc cgaaagaaat tccacggta 60  
aaacaagagt ccgctctagt tgactctgtt gaggatggaa agcacgtcg cagccatgaa 120  
gaggtttca atggcgccctt tcccaagttt aggttatcgc aagccccag tagcgtggat 180  
agtacgaaga aatcgaggatc aggacaggtt tatctgcctt atgaaagaga taattggacc 240  
gagtcagagt cttccaaacgt tggacacgtt cctgaactct cacaccaccc gggttggaga 300  
cacc 304

<210> 2918  
<211> 429  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-057-Q1-E1-D12  
  
<400> 2918

gacccaagcg taaggtaaag gggttgggtg aagatggcac aaccccccct tgacgagatc 60  
ttcaagaagc ctccgaaaga ctgttcgcaa gattactgtg acccttatga attctatgaa 120  
tatcaaagat atttggaaag agagtataaa gtcaagtccg aagagtttat atatataaaag 180  
gacaaagtca aggagtgtta ttatcgtgaa ggggtcgctc actataagaa ttgccgtgaa 240  
cttgttgcgtc agtattggaa aaagctccgc gaagtacgcc gtttctatca tgatcaccga 300  
aggattatac ctggaaagga atatattcct gttccgaagc caaggaagtc agaagaactg 360  
ctggatagtg cgatgtaga actgaaaaac gtatcgtga catcagcttgcatgaaacctc 420  
agtccctaac 429

<210> 2919  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-057-Q1-E1-E10  
  
<400> 2919

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ttatcgttag tttttttgtt atctgttcat attgttcgag cacaatgctc ggaagagact 120  
atcaaacaaa tggaggcaat atttatacaa aactttacac aaaatgaagc aatggctcct 180  
atgtgcttac attctgcctt tcatttactgc tggaaatggtt gtaacggagc attgtttttta 240  
ccagaagaaa tagacagacc tgagaacgct ggttacctc cgctgaaacc actgctgatg 300  
ccatTTTACTT cacagttcc ttgtatcgtt attgcagact tgatcaactc ttgtgcgggtt 360  
actgctctga agttttggg tggccaaat tgcgtcaagtgc tactaggaa gactcgacag 420  
aggtgtt 427

<210> 2920  
<211> 434  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E11

<400> 2920

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gacacaagtt tggcagtgga gacttgtcaa gagttatcta ctgtcgatcc tccgcacata 120  
aaatatgtct taaaatgggt taaaataatt gcaaacggct caggatctca tcaccatctt 180  
cgaaaacttg accaacgctt agatttgata cgtggagcta cttgtaaggg aggtggagtt 240  
tatttatatg ccaatcaact tggatgtgat ggaggaaggt tatatttga tggatgtgct 300  
tgtatttgtg tcaatggta aatagttgct caaggatctc agtttctgt ggagactgaa 360  
gtggaagtga ttgttggcac tgttagattt gacaaagtga ctagtcatcg tggatgtgct 420  
gcctcacgag gttt 434

<210> 2921  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E12

<400> 2921

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tgattctcggt gtattgcacg agaaaaagtc cttaaatgg aaagagctt gaaaaggcagt 120  
gcacgtcttg tgcccatacg tccaaaggct gttgtacctt caaaagggtc taaaactttt 180  
tcggttgcattt tagttgggcac cacgtggat ggtggttgca cgtactataa aaggggagga 240  
gggtcatata ttactaatgg gagaattaca gtaccccaa gggcgctaa tcccatgacc 300  
aaggacgagt tcttcttact gggtaatcac tcgagagaca agctttgcc gctgtttgtt 360  
acaactctac aaagttccga aacacaatta tggatgttac tttgggtgt atttcacag 420  
ttgtttt 427

<210> 2922  
<211> 430

<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-057-Q1-E1-E8

<400> 2922

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tgcgtgggt tggacgttat ttatgaactt ggactcgatt gacacaggga ttaaggctcc 120  
tttgacccg tttcagacg cctcacgtgg agaggacgca ggagtagcga ggggtgtagt 180  
ggatattcgc ttgcaacaaa ggaacggccg caagtgcctc ggggagcagt caagggcgtg 240  
agacaaaagg gcggttggat aaatgtgcga aggccgtcaa aaggagttt tggtgcaacg 300  
gtggtgtcgt agacgacgga gggggggaa gagtcatcga actgcaagga cgagagaggg 360  
ataaaagtcaa aaagtttcta gttcaggaga aattagctgg aaaggagctg ataaagggtgc 420  
acggtatatg 430

<210> 2923  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E9

<400> 2923

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aaagaagaga gtgttaaggcg gcgtcataat agaaatccga aaggagtaga agaaaagaga 120  
gagaagaaag aaaagaagag aaaagccgta ctgaagaccg acacaggtac tcgaggagaa 180  
aggagaccca aatTAAGGTG agagaatgga cgataaggaa cttagccaaa ggatatggta 240  
tctgcgttag aacatatgaa agaagcagca ccgactgttt agaaaaaca cagcactctg 300  
cagaaaagag aaaatgtaaa gtatagagtg tgcggcctgc caaatagtag agaagaaatc 360  
gatgaaagtg aaagcgagta aaagatgacg tatagagaat ggcggtccta acagtaagga 420  
tcca 424

<210> 2924  
<211> 424  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-057-Q1-E1-F10  
<400> 2924

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acaacaaaat gatgggactt gttcgttgtt agtggaaatt ttccgttca tgactagatt 120  
tggcttgtg ataggaccga acttctgtt tcaacggaaa cgtcagctg acttgctgaa 180  
agaaaagagg cggtgtgtt ctttccgcga taggacagct tgtcatggag gtgttattat 240  
gagtcgatcc aacgaaaggg taaccaagac tagtgtggaa cacttttgt caatggccgc 300  
gaaaaagctt cgtgaagtct ttggatattc ccactttcct tctggccaag aagacgtttt 360  
gcaaaaacta ctttgcctc ggttagttgt ttggacttg ttaccaactg gtggtgaaa 420  
aagt 424

<210> 2925  
<211> 357  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-057-Q1-E1-F11  
<400> 2925

gacccaagcg tcagcccacg cgtccggct ttgttattcg aatctcgaaa cggactagaa 60  
gaaacataag acactgaaaa taaagcaaag ggttttagg tacaaaggct ttcgtatcga 120  
cgtgactaca gacaatttcg tacaagaggc gcgatggtag atcaagtatc ttcacccaca 180  
ccagactcgg agcacgtgtg gtataaaagt tatcaagggtg aacaggactt gtgttacatt 240  
cgagcaactta ttgacaacga cttgtctgaa cccccactcca tttttactta tacacacttc 300  
ctcaatcact ggtcacactc acgtctcccta cgccctttc caagtgaatg tactggg 357

<210> 2926  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-057-Q1-E1-F6  
<400> 2926

gcaaagaact cgattacttc ggaagttgtat gattcctcgccctaggcgat cgttgcaaga 60  
gcaagcgtca actcctcggt agaaaagaaag tttcgcatg gaaagttcct acttgaaaaa 120  
ataagaatcggtgcgttca ctcgaacagg gggaaagccgg actttgtgcgccttagggcg 180  
gtgaagagga gaggccggtg aagaacacgacg gcgggaggga cgtttccgggcgcaagactt 240  
tattcctggtaaggaaaaaa gtgcaacgca gattgccccggggctact tgggttgtat 300  
caaccacaa gaggcacttc cgagaggcgt gtgaggtgac caatacaagt gtgaagattt 360  
taatggc 367

<210> 2927  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-F9

<400> 2927

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attgtgaaa aagaaaagttt gtttggggac caaacagagt gacaagaaga gatggcaagg 120  
agaatattgg gtgcttatat gggagatgcc acagtggcaa ctctgttcag tatcaaaatg 180  
ttgttctatcttactatcat gggtttctccataactatct tggctctcat gggaaagaac 240  
tcggatggta ttggataca tagtgtgcca cctgcagatc aatattgtgc atacaagtct 300  
tcattggagg tgaaccacca tgaaattgct tcctattgca agtatacttccgtac 360  
gctattgggt tggttatctc gtctttccag ttttgcatttgcgttgggtt 411

<210> 2928  
<211> 429  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G11

<400> 2928

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tttgggttgggt tagtgggtgg gaaagccaaac cacagtgcacatgttgc agatataac 120  
actagtagaa taattgtga ggtgcaccag tttgtttgtgggtacaaaaa tattacgaga 180

aacgaacaag atgtggtgtt atgtagaagc ttcatttcca acccataatc atcacaatgc 240  
taataataat aatatacatt gtattcataa gagaggagtt gcttcaagt atgtaaacaa 300  
gttggttgcc ataagttta ctaggtcgaa tcgttgcctc aactggagca acgataccaa 360  
agcaagaata accactacta ctactactgc agtaccctgc ggaaaagaga gcagccgacc 420  
ttgttcttt 429

<210> 2929  
<211> 328  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G5

<400> 2929

tggtaaaaga acttagatcg agagcagact ttgaccaggc tagtcaagca gacaagttcg 60  
tgcgcgtgga cttttatggc acttggtgcg ggccttgcta gaaggagttc tccctagctg 120  
gaagaactgt ctgctgaccc tacttaaat gggagagcg gtagctgtt tctacgcagg 180  
tatgaggtgg agagattggc agatgttgcg caagaagttt gggattaccg cgatgccagc 240  
ttttatttgt tagagaagag gaaagaaaagt cgaagaactc gtcggtgcggt cgaggaccgg 300  
ttaaaacata tgattgagaa gaacgctt 328

<210> 2930  
<211> 385  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G6

<400> 2930

acgatggcca gcgtgatcct gtcacaattt tacctggac tcgttgtat gagtgggttc 60  
gacaggagga aatcttgggg aagtctgagc atcaccagg aatcagagac ctcggaagac 120  
tgggagctcc tatggcattt gtcctgatg gagggattga agttactat tggggcgcga 180  
cttaggatcc cagggaaagg aattttctt taggtggcg gtgtcatcca gaggagtgc 240  
gtgcgcgcattt atgagatcgt tcttgctcg agaggcgacg gtcagtatga ttagccagga 300  
tgtgcggcg tatatgagac atttagtgct gcagtgcagg ctttgcttc aaaagaagcg 360

ggtgattcgg gtccttctac aaaga

385

<210> 2931  
<211> 425  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G9

<400> 2931

gacccaagcg tcagatttct gccaccatag aaatttcgaa accgtcgaaa cattttgtgg 60  
cttgcttttc ttttctttca agaatgagca agactttgga ctcacttgac gattttcggt 120  
ttgaaggcagg tgttacacct ttctcccttctt tttggattcc ctgtgttacc tgtgttcttt 180  
attttacgct cactagagtt ttcaagttgt tggtttcgaa tcgaaaaccc cttcgttccc 240  
cttcattact gtttttttac aatggctgtt taagtttctt ctcttttattt ctcttttattt 300  
ctcttggtgc agttatTTT gaaaagtcca aactctatac ccctcatgag ttggtttgg 360  
gctccgctac ccatcatgat ggccgcctcc agtttagctt attggctaaa ttacctttc 420  
aaata 425

<210> 2932  
<211> 439  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H10

<400> 2932

gacccaagcg tcagcgacga tttggaaagca atggagaatt ctcaaggtga taaaccagac 60  
tggaaacaaa aactggaaaga aacttataaa catttggaaa gtttattgaa gaaaaccgaa 120  
gagatggAAC agaaaatggTC cagatatAGC ttgtcgCAGT tttcaACGGA agatCTCGTA 180  
agagaACTCG aaaaaAGAAT gggatggcA caaggAGATA ttccgatgTC tgatgAGAAA 240  
aagagattAG tattcatAGG tcctcCTGGA agtggAAAAG gaactcaAGC accAAAAGTA 300  
actcAGAAAT attgtttatG tcatttggCA acaggAGATA tgttgAGAGC tgctgtatCT 360  
gcacgaacAG gatTTAGGGA aågaagcaAA gaaAGTTAG gacGCCGGTG gtctcgtaTC 420  
ggatgaaATT gtggTTCT 439

<210> 2933  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H11

<400> 2933

agagcgccgt cgcccgacc aatcccatt gtctattgaa gcacactcaa ggagcgaata 60  
aagagactac tgaaaaaaaa atcatgcaaa aaaatcaacc cgttcacgca acatagctgt 120  
tttgatgttag ttgcagttgc ccattgttat agaacgagca gagttggagt ttgagatgaa 180  
gtagtcgttgc tc当地cgaa acatagttga ctggcatcga gatgacgcac tagtgatagt 240  
ttcttccaat cgcagggtgga ataggtttc ctgttagagg ctgacttgtg gactgcgaga 300  
ttagtgtgga taaagctcat aggaagaaaa ttccacgtgc ttcaagttt cgtcttgaac 360  
tggtaaaaaa taatggtttta ctggtaag ttgctatagc gtagaaaggt agccaacgag 420

<210> 2934  
<211> 322  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H12

<400> 2934

gaccggagcg taagcccacg cgtccggcca cgcgtccgtg cttttctcg tcatgtcgca 60  
gtccccctat gatcgtgccat ttacggctt ttccccagat ggacacttat ttcaagttaga 120  
agatgccttgc aagcagttac gaaaaggaac aactgccgtt ggagttcgag ggaagaacgt 180  
catcgcccttgc gcaatggaga agaagagcat tgcaaaactc caagaagcac gaactgtggc 240  
gtaaaaatgttgc tctattacat aagcatatat gtcctgctt tgccagggttgc acagcggatg 300  
ctcgagttctt ggtgaaatcg tg 322

<210> 2935  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-057-Q1-E1-H2

<400> 2935

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tgcagagtgg aattggatat cgacggctat tatggggAAC aaaataggAA ggcgtgcACG 120  
tactttgacg gacgtgtcag caccagacgt cagtcaagt tgggcaaATT ttttgggacg 180  
caccggAAAC gtggaactgc cagcatgggt ggattatgtg aggCgggAGT gcgacgAACG 240  
aactagCTCC agatggtcca gactggcgCG gcctgagaAT ggcagctcgc gCgcggcaAA 300  
tctgtagTCG gtccaggtAG aggtggggGT gcattccgAC gggtatacGG tgctcgggAG 360  
agaaggggat cgaaggctan tcacttcccG ttG 393

<210> 2936

<211> 266

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H8

<400> 2936

acggtctAGC cttccgggc cgagacgCgc gtccgcgggt gtttgcttgg gtatAGcggt 60  
ggTgggcgtc gtcgtcgtcg ctgctgtAGA cgCgcgttcc aAGccttgAG gacaAAAGtc 120  
catccgcaat cgacgcaAGT cttcatggT gacaacgtGA cgaactaccG ataccCattt 180  
taggcgaAGA aatagaATTG cgctgttgct acctacttct tgCaggctc aggtgcaACG 240  
ctccgagAGC tggatgagct cttcta 266

<210> 2937

<211> 329

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A1

<400> 2937

agtttacctc tccaagaACG tggcacGG cagtccatAG aacgtgtGT AAAAtgAGAG 60  
aacgtacgAG aaAGCCAAGT gagGAACGA aggcaAGtAC atggcggACC gagAAAGGAC 120  
aggcgtAAG acgtgataCA gacttagGAAG aacAGATAAC agAGCTATAA aggACgtCAA 180  
agaAGAGtAC cacGactAGA agaggtacGG aattcacGAA gaaAGAACtG gaaAGAATG 240

ggaatccac gtgaggaaaa caacgcaact agagggcggc ccgagaaaagt agaagagcat 300  
gaaaagaaga gagaatgctg ggtggaata 329

<210> 2938  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A10

<400> 2938

agcaagagcg ttcctcagta cgggaagaag agactttgtt attaggtacc agaagtcctc 60  
gaagtaattc agatatttag aatggttaga gtatctatat aaagtatata tttgctcaag 120  
tatgaacgat taggaggtgt gtctttgagt accaccagcc ttgacaagaa ggaagaaaacc 180  
aaaaaaaggcg gaaaaaagga agaacaagga aagaagaaga aagatgacga cctaaaaact 240  
catatggcga acgaacgaac tttcttcaag tggttattta caggtttca tattggagct 300  
atgggtactt ttattctggc attctttca gagtctcgag atccttcaa gttgttattg 360  
gttatctttt gttgggtgat tgccttgagc tttgtttt atggattata caa 413

<210> 2939  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A12

<400> 2939

agcccacgcg tccgccccacg cgtccgatcg tttgtggtgt ttgtgggggg agagagagag 60  
atggataccg gaaaccctta tacttctgta ggcgtaagga gtacaacccg agcaaaaacc 120  
agcgaatcaa agaaaaaatg gaaaaagatt ctgccttata tcggaggtgt agttattcta 180  
ggattggtgg ttggttggc caaagcaaag cacgacgaag atacgggtga caagaagaag 240  
acggcagtag caaaagaata aacgaagcga gacattgaaa cgctgtcgaa tggttatgaa 300  
agggtgatat cgtgttggc gttcttattg ggtagttgt ttttcgtat ggattaaaag 360  
aaagatagac ttgtgtctgt gattcttattt gccaaaagaa aaatgctttt 410

<210> 2940  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A2

<400> 2940

cccacgcgtc cgcgacgca ttccatgttg aaagaggta cacgtatatt gtccgatctc 60  
aagtttcagg tgcttcaaga tggaaaaccc caggtataaa cttcggatca agtattcgga 120  
ggaaaagaaag tagtattgtt tgggttacct ggtgcctta ctccaacctg ctctaggcag 180  
caccttccag gctttggaca gaagggttcat gaaatcaaat cgaaaggagt agatacagtc 240  
gcttgttag ctgtcaatga ccctttgtt ttacatcagt gggcagagtc acagggagtg 300  
gcagggaaaa ttctcatgtt agcagatggt ggtgcgcaat ctgtcaagaa acttggactg 360  
gatat 365

<210> 2941  
<211> 330  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A3

<400> 2941

ggaagaaaaga ggcacatacg ggaaaggcagt aaaagaagaa agagaaagga aaaaactgag 60  
tatcaggaag aaaagaggga gtagatgagg aaagaaagat caaggaagta agagtaacag 120  
aaggagtaat gtgaatgaaa gcaggaaagt atttgaagaa gagagtgtaa agcgcgtagc 180  
ttttgcataa tgtcccagcg agtcaaagag gaagcatcaa gacagaaaaga gaagtagcc 240  
ggtaagaccc gaagctagtt gatcctatgc tgtccaaacg aagtaacgct gaaccagtat 300  
ctgtggaaa aagattcgga agagatggca 330

<210> 2942  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A8

<400> 2942

aggggcgtcg tcgtcttgg gaacattgtt attgggttgt gaaagtttat agaaaatgac 60  
aaaaggaact tcgagtttg gtaagagaaa taacaaaact cacgttttat gtatacgctg 120  
tggcgaagg gcgtaccatc tacagaagaa gcgttgtgct tcttgtgggt acccatctgc 180  
taaaaagaga aaattcaact ggtcgaaaa gtcgaaaaga aggcaacga caggcactgg 240  
tcgaatgcgg tatttgagac acctaccgac acgattcaaa aatggttta gagaaggtgt 300  
caaggcttct tctaaacgtc ctgctccagc accttcagca gtataataat tgac 354

<210> 2943  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-058-Q1-E1-B1

<400> 2943

aggagaatgc tgggtggagt agcgaaacaa gagaaggaa gtaaaaggta agaaagagga 60  
aaggtttacg agagaaggaa gtagaaagaa gagagtgtaa ggcggcgtca taatagaaaat 120  
ccgaaaggag tagaagaaaa gagagagaag aaagaaaaga agagaaaagc cgtactgaag 180  
accgacacag gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa 240  
ggaacttaggc aaaaggatat ggtatctgct gtagaacata tgaaagaagc agcaccgact 300  
gtttagcana aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc 360  
ctgccaata gtagagaaga aat 383

<210> 2944  
<211> 337  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B10

<400> 2944

cggacgcgtg ggaaaaatggaa ttccgacgt tggcagtagc agcagcaaca tgagccgtcc 60  
agaataacttg gcgcctcctg aaatatatta caacgatcag gaagctaaaa aatatttaac 120  
aagcacacga atgaacgaaa tccaaagaag cctcactgaa agagcggtgg aactgctgtg 180

tcttcctgct gacaaaagt gcttattgct cgacttggc tgtggctcag gtctaagtgg 240  
tgatgttatt acagaaaatg ggcacgaatg gtaggtttt gatatatctc aagctatgtt 300  
ggatgcagct tgcaccagag acgttgaacg tgatttg 337

<210> 2945  
<211> 355  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B6

<400> 2945

agggattgaa gaggaatgac gtcaagtcccttccggaaag aagatatcg ttgctgttgct 60  
ttgagactag tacaggaagg agacttgaat actttgacca ttctgtaaagt aaaggaactt 120  
gtttaaacaaac aaatttagtgt tgaagactcc tatgacgacc aactcaccga gctcgtgaaa 180  
gttgctatcg atagacacat taccagtttgc caacaacaaa gcatagaaga tgactcaacc 240  
aagaacacaa agaaagatac acaacaacga aacaaaccac acaacacgaa agaaatagac 300  
actagtctaa ctgaccaaga agtgtatcat caatttgaca aagtacgtcg tcaat 355

<210> 2946  
<211> 255  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B9

<400> 2946

cgcgtccgcc cacgcgtccg cccacgcgtt cggaaaaaaa aaaaaaggag acaaagctt 60  
agtgcgatata aacagccctt tgaaacaatt ttgtcgtca caatttagggg gggttctccct 120  
cgggtttaaa ctctctaata tttttttttt gaattaaaac acctccaaaa ttttccccaa 180  
atttatata acgggcgtcc tttaaaagc tcttgaatgg gaaatacctt gaggtgaaca 240  
accttaacgc ctttg 255

<210> 2947  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C11

<400> 2947

agaagaactc atcgagagaaa tatggtcgta tgtagaagag cacaaggaaa cgcatataatgg 60  
agggcgcttt ttggtacaag agctgtgtag tgaaaaatcg ggagatgatg tattatgc当地 120  
tcgagcattg tatgtttgg ttcaacagga gaaaggcagtt gtatatgaaa tagaaaaaaga 180  
tgaaaaatcg gtcctgatct ttctatgaaa gcgtttgata agaatatttt 240  
ttcgatgatg catcaaattt cacgactgga aaagcacatt gataatttga atcaaaaagtt 300  
gtctgaaatg gaagaaagac taaaagtttgc tgcagaaaag ttgagaaaat acaagtcttc 360  
acagaatgag ctcttatatga ttgagc当地 387

<210> 2948

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C12

<400> 2948

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acagaacctt ggaacttgggt attaagagag ttgcataatgg agtacttgta ggctcagtaa 120  
ctgctttgat ctattccgt tctcccttga cgagagttgc tgtttcgagt tttggaggtg 180  
gtgttagggtt tggaaatgact tatagtgaacg caaaaacggga ttttgaaaaaa ctc当地点  
cagtctcttc tcagggattt accgaggact tgtctatgaa tagttgatga ggtggtggcg 300  
gcgggtggtcg tcgtgaataa aagaataactc gttgttctcc tttgaaaa 347

<210> 2949

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C6

<400> 2949

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agcaatgacg ctcattaaaa gtgtggatgc tcgagagatt ctagactcga gaggaaatcc 60  
gacagtgtcaa gttcaagtca ctactgaact aggtgttaact cgtagcagctg ttcccttctgg 120
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tgcttcaaca ggagttcacg aagctcacga gttgagagat aacgacaagt cgaggttct 180  
aggaaaggga gttacaaagg cagtacaaa tgtgaagacc gaacttgcaa aagctgtgat 240  
tggtatggat tgcggacc aggcaagcgat tgatcgcaag atgatctttt tggatggAAC 300  
tccaaataaa agtagactgg gggctaatgc tatacttgga gtttccatgg ctgtttgt 358

<210> 2950

<211> 368

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C8

<400> 2950

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ctccgtaaag aagaattctt ttgttagtggta gaaagggtttt ccgtgcaaag tggtagacat 120  
atccacactca aagacagggga agcatggcca cgcaaaagcc aacatagtag gtattgatat 180  
cttcactggc aagaaatacg aagaaatgtg tcccacctcc cacaacattc tgcagccggt 240  
ggttaaccgc aaagactatac agttggtaga tattgaggac gatgggtttg tagttcttat 300  
ggatgaaaac aacgagacga gatcagacct gaaacttgat ttggagaatg atgaagtaca 360  
caagaaga 368

<210> 2951

<211> 378

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D1

<400> 2951

ccccacgcgtc cgccccacgcg tccggccct gaaaagatata agagacatata ttatgtatgt 60  
aaactctccc tccttgtcct cgtcgactgg aacgagcctt tccaacgcctc cttgtgctaa 120  
tactttgcat caaggacaag agagtgactt gcaaagcatc gtcgcaagca aacgctatga 180  
aagatatgtg agcaactcag aatgccacaa aactttttt cttgttatac ttcgaaacag 240  
atgacctatt ttttgattt ccaactcggtc gttaaaaagt gaacggggct taaggcttc 300  
tgttcgccga caagaatatt tgaagatacg aatttgcgg ttaatgttgc tcaatattta 360

ttgcttcagc aacatcat

378

<210> 2952

<211> 360

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D2

<400> 2952

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tatgcaccga agaagacgaa gaaaccaaag tgctcaagga caaggtggaa ctgattcaag 120  
ttcctgaaac agtggattgt cttcaaaatt tactcaatat tattccattc caactttaa 180  
gttatcactt ggcagtgcga agaggtcaca atgtggacca acctcgaaat ttagccaaat 240  
cggttaccgt cgaataaaatg gcgaattgtt ccatgtggag gaggttggt tttttgtggc 300  
ttgggtcaac ccttgaacga aaaatatctg gttcatttat taaaagtatt ggtaacaatc 360

<210> 2953

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-058-Q1-E1-D3

<400> 2953

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gtactggaaa tatttgagt tttgcacccg ccacaaagtt gaatatgacc caaccgttg 120  
tatgtcttg tacgtacaaa ctggttctct acagtttca aggaaatcg aaggtcaaca 180  
agttattcct ctgttggaat tagcgaaaga aggacacctt tcatgggtgg aggaactttc 240  
atacaattgc cgtcgttat cttctctcgt ttcaaccctt tgggtcaagt tgtgtgaggc 300  
actgcctcag ttgaagatgc tgaatctgac tggAACGTTT CTTGGTGACG AAAATTTGT 360  
tgcact 366

<210> 2954

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D6  
<400> 2954

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aggaatcaac ggaagagaaa catccgacga gacacaagtt gaatcatgca aaaccacgag 120  
ataaggagat tttggaagaa gaggaaatct tcaatttact agaagcttt agaaagtatt 180  
ttccagaacc accgagcaac ttgagagctc aggagataat tgaagttagt atttgcattcc 240  
cttggctttt gaataattca cagaaaaacg agtaggtctg gtaggttctt tacggagaaa 300  
gaacagtggg agctgtgggaa aacgtttt aagccttggaa gtcgaaaatg gtactca 357

<210> 2955  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D7  
<400> 2955

agcccacgca tccgcggacg cgtggggccg ccactacggc tactagccaa tattctagtt 60  
tattaacctt tctaagaatt ggtgcctttg tgtttgggt agctgcaggt tttggaagtg 120  
cttcagcgga ccatcgtaaa agagaaaaaa tttaatttc taaaattcac gagcgcaatg 180  
ccaaaattga ggcgttggaa agtgaactaa agcaactgaa agggaaatt ccagcttcta 240  
caggtgatcc agttcaagat tggtaatc aattgaaata agatgtatat gttacaagtg 300  
ccttgtggaa gagagagata gtcatttggaa taaaatttagt tctttccca aaaaaataaa 360  
atgggacact cctaaaaaaaaa aaggccgg 389

<210> 2956  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D8  
<400> 2956

cgaccacga cgtaagatcc aatatgagta aacgcaacaa ctacttgag ttgcttaccg 60  
ctcgtcaact actgcccagg ggtggattcc ataccgtta cagtcaaaac aacggacctt 120

cgcgaaaccc tgacaaatac gacaaaatcc tatgtttcca tcgaaccata cggaagctc 180  
tttaccactt cccgaattct gcgtaaactt aaatttgaga gactaagact ctgcttc 240  
cacactcaag acaaccagg tgcgaaacca gggtaacctt gacgagcgac tcgttagtct 300  
ctcaccaccc ctcctgtcta cgtgctgaa acgtgtgcct ctgccgcct tcgt 354

<210> 2957

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D9

<400> 2957

cccacgcgtc cgccccacgcg tccgacaagt tattcaacaa aaatatggga cttgtgggct 60  
tcttccaaag aacactattt tcaggcaaac acaaggatat atatccattt gttggttgcg 120  
tctcttttc tcttattatg gcaacattct tatccgttga ctaactgctc cacaatccaa 180  
ctgtattatg gaaaaagtct gaacgcgagg ccttgctcg taacgaattt gagaataaag 240  
aacgatggtc tattcggttc cttaaagcaat ttcgagacca cccttattacg gtgttcaa 300  
cactgaaatt ccatacgcag agcaaggaat aaggatcatc tgtaaataaa tgtccatctc 360  
tgttgtttt tcataacgt gcaatgtctc tcacttc 397

<210> 2958

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E1

<400> 2958

tcacgttcct agttgcaata atcggctctg taatatcgct tgccactcct ctaagtgaaa 60  
gatggcaaag ttctacctcc tgccaagaga catgtaagac agtctgtatt caaacgcaga 120  
tatgttcaac tccaacacact acaccaactc caagtgtttc tgcgcaacaa ggaaacgtat 180  
accgctggag tgagacgtat gcaactccta ctccaacacc aactcttgtt tgtactttag 240  
ttccgcagtg cactcaagtt tgcagcagca aatgcccag tcagacaact tctgccgtag 300  
aaagcaacag ttataccctcc tcttctactc aatcgctac cacatcaaca tactattatg 360

<210> 2959  
<211> 276  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-E10  
  
<400> 2959  
  
acggaatcgt attcttatga atatggatgc cgaagtacaa aatcagtggg aactgattgg 60  
ttccaatgta catagacacg acttttctt ttgacaagag ggacgatgct atgccatgca 120  
gacatatgaa tatatataga tatacaccta tgcataatgta catatatgca tatatatatg 180  
tatgtatcca gattataga gataatacat gggatccata gagatagata gtttgtacag 240  
ataaaggatc gatagaaatt tggcgcaaaa cccagc 276  
  
<210> 2960  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-E11  
  
<400> 2960  
  
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ctatttggtc tctgtttcgt tcagctggac ttggcgtcat cgtgtttgag gcctttctac 120  
ttacttcctt ggtataccct taagtgattc agataggaag cttgggtgg atgagttgat 180  
ccgagttatc caacaacggg cagtcgattc gcaaagagaa gcccgacaca gttactgcat 240  
tttttgtgct tgttagtgttc taaagttggc ttatccacca tatttgaaaa acgctttacg 300  
ccaatcagta accaaatgta ctccagacc ttttgcactgg g 341  
  
<210> 2961  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-E12  
  
<400> 2961

cccacgcgtc cgccccacgcg tccggaaatt tcgaaaccgt cgtttcattt tgtggcttgc 60  
ttttcttttc ttcaagaat gagcaagact ttggactcac ttgacgattt tcggtttcaa 120  
gcaggtgtta cacctttctc ctcctttgg,attccctgtg ttacctgtgt tctttatTTT 180  
acgctcacta gagtttcaa gttgttggtt tcgaatcgaa aaccCCTCG ttcccTTCA 240  
ttattgtttt tttacaatgg ctgtttaagt ttcttctt ttattctt tattgctt 300  
ggTgcagtta ttttgaaaa gtccaaactc tataccCTC atgagttggT ttgtggctCC 360  
gctaccCATC aggatggcgc gcctcagttt a 391

<210> 2962

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E2

<400> 2962

gaatggaagc ccacagaata catttggcatt aggttgcatt caactagccg aagagaaaaca 60  
agtgtttattt gtgggcgatg agtttaaatc gggacaaaca aatatgaagt ctgtgcttagt 120  
agagtactta gtgggttagtgaatgaaagt ggagtcgatc gtgacttata gccactttagt 180  
gaacagcgat atgtttcagt tgactgacgg agaaatgtgg aaaccagagt ctgccgcgat 240  
aagtagagtt attgaagata gtgtcagttc caatggact ttatacacgg aagatgaaat 300  
gccggatcat gtagtagtag caagatatgt gccttcgtac ggatattcga acagtgtatgt 360  
cgccgagtagtac ctgactagaa ctt 383

<210> 2963

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E3

<400> 2963

aggTattttgt tcctcttgca aatgctgcag gtcttggaaag ccgcatttat gagttgggtg 60  
acctgagttt gagaatatttgc ttccctcaat cctactttaa gttcgaaaag tggcattttat 120  
ttattcgaga ccaaggcacaat gatgtactttt cttccgcgca acgtgaactt cttctttgtc 180

ttatgaggga cccattttta gtccgtcttg ctgaacaatt tacaattact ggtcgacga 240  
aggacatggt ttctactttt attaaaatgc tcaaacaaaa caagacaaag gagcagatcc 300  
ttgactttat tgcaatgaga gttattattc gattgcgacc aggagt 346

<210> 2964  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-058-Q1-E1-E4  
<400> 2964

agagaagaag agcgtgcgtg gaggatggat tccgttattt cactagttgg gaaagacttt 60  
gttttatcag cagcagatac tgccaaacgcg cggtcggtca tagtaatgaa agacgatgtg 120  
gacaagatat tggagctgga tagtcataag accttagcta tgggtgggaa gccaggtgac 180  
tttgtcagt tcacggagta tataaaaaag aatcttcacc tttacgaatt ccaaacggga 240  
ttgcaactaa gtactcacgc agttgctaac ttcatccgtg gggattggc tagattgata 300  
cgaaaaagccc ccgtatataac caacctactt ttggggggtt atgattctgt gtccgggcct 360  
tcactgtatt acatcgacta tcttggtaact tttggaaaac tagactata 409

<210> 2965  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-058-Q1-E1-E5  
<400> 2965

aggcaccaaa tggctccaac cgattgaggg tggtgaaag ttgacgtctg ctttgcgc 60  
tcttttttgtt atctcttttg tgttttgcct tttcaagct tgaagactat ttattctgt 120  
atgttttaga ggtttcttcg gagttttttt gtactagtct tattccatgc ttcgtgggt 180  
gtgaaaggct ctttcacaa cagcgtgtc atgatccgc caatctctac atttcaatt 240  
gccaaaccttata ggcgtatata ataagtataat ttgtacagac tcatgggtta gaaagaagag 300  
tgcaatggtt gaaaagtaac agcaaggtaac taaggtacct gtanaggaag cacttgaaaa 360

<210> 2966  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-E6  
  
<400> 2966  
  
gcaacgacgt ccggtagagac gggattccat ttcttaaga ctttgcagg aagaccagg 60  
taacaagacg tttcacagga gttcatcatac agacaacaat ctgtgaacta acactgggac 120  
aagtatttgtt ctgtacgggtt ccacgaaatt ggaagacgaa atacgtgtaa ttcccgtacc 180  
attgacaacg cgtccccaccg tgtaaagcag gacgccccga gagagtagag cgagtgacca 240  
gataagacgc gagtctaattt gatgatattt ggtccactcc atctaaggct gaatcgttat 300  
ctgttggaaaa agaatctcaa gatatggcct gacgagtggaa a 341  
  
<210> 2967  
<211> 342  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-F1  
  
<400> 2967  
  
agcggacgcg tggcgacg cgtggggaa gtgaagacgt aagacgtgaa aaaaaaaagcc 60  
cagaagccaa gataaggtat caaagtaaag aaagaaggaa aaggagaaga agagagggta 120  
ggcttagaag cagcaaacca gagagggaaag cgttaaagca tgaaagaaaa gaaatccgaa 180  
aaagaagaga aaaaggtaag aaagaggacc gaatcagggt aagaggtaga ggagcaagaa 240  
gagaagagag aatgctgggt ggagtagcga aacaagagaa gggaaataaa aggttaagaaa 300  
gagggaaaggt ttacgagaga aggaagttaga aagaagagag tg 342  
  
<210> 2968  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-058-Q1-E1-F11

<400> 2968

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cgttgacgac ctcttccgta ctgtacgctg cagcaaagga gataggtttgcgtcattatt 120  
tgttatagat agctttaaag agtttatgaa atcataggaa gacgatgtgc caaggagaat 180  
cgggattttt tggaatgtaa gaatacggag gaaaacccgg aaagttgtct tggacaggga 240  
gagaaggta ccaactgtgt gctgcagtta ctc当地 agatt tgaacgcaac ctgcccacga 300  
gagtttgaag aatacagtgc gtgtcttgat aggcaatcaa gccaaacttta tctgtttgat 360  
cgttgtcgaa agtttgaag aaaccta 387

<210> 2969

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F12

<400> 2969

ggtatcgctt tatgttcgtt cccaagttgt accaccttct agtggtgagg aagaatttgg 60  
ctatcctcga atactcaacg cagtaacttcc tagcggata tggatcaactg gttggacttag 120  
tgtggatgca gaattccacg ctcgattttc agcttcttac cggacatatac aatattactt 180  
tagacctgaa aatttgaatc tgtgtgctat gcaacgtgca gcacaatttt ttgttaggtga 240  
acatgacttt cgtaactttt gtaaagcgga cgtttcccaa gtccaaagtt ttcgaagggt 300  
tatctatgcc tgcgatataa agatagttga aatgacgcac aagaatatca tagagaggca 360  
actacttgag tcgatggaaa gccagccgca tcgattggac aact 404

<210> 2970

<211> 321

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F3

<400> 2970

agccatcgctc cctcgtcgtc tcctccaaacg agtacaaaaa cataaaatag aaaatggcaa 60  
ctttactatc caaaaaaaga agagcagtag ccgacgggtgt tttcaaagca gaacttaacg 120

agtttctgat gcgagaattg tcggaagagg gataactctgg tgtagaagtg aaacccacgc 180  
cgttgcgaac ggaaatcgta atccgagcta ccagaacaca aaacgtgttgg gggaaaaaag 240  
gtcgaaggat tagagaactc actgcgttgg tacagaagcg attccgtttt cctgaaggaa 300  
cagtggaact ttatgcggaa a 321

<210> 2971

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-058-Q1-E1-F6

<400> 2971

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gtaaaaggga aaggaaagga gagaaagagg aaagggtatgaaatgcagaga tctctagaga 120  
aaggcaagaa agaaaagaaa ggaagacaca gtaaatgagg cgagaaagca taggaagtga 180  
aacggattag gaacctcggt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg 240  
agtcattcca ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc 300  
ggaaaaagggttggatcacg taaattaatc cgatttaaac cgagaacctt acctctccaa 360  
gaaagtgttg cacggctgtc gnaagaacgt gctgtgaagt gagagaacgt acgagaa 417

<210> 2972

<211> 354

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F7

<400> 2972

aggcatgatg aagagcgcta tgaagttctt tgtathtagc attatttgg caaatgttgt 60  
tcttactatt caagcagcaa cagttttgga gactttggag tcactgaaat atacagagta 120  
tcttgacatg gtaaaaggctg caggcctgga ctgcagggttt aacgactctg ctgtgacatg 180  
gactgttttt gcagcaaaca atactggagt caatgccacc ttggcaccaa agcaacttgg 240  
tatttctaattt atcacatcta atgcgacgga gagcaaagaa attgttgaat attatgtcaa 300  
ccgtacaattt atgtcgatg agattaagcc aggaacaacg atccttacag ct 354

<210> 2973  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F8

<400> 2973

agcgtttgg a c g a a g c t t g a c a a a t t c c c g a c a a c t t g c a g a g t t t g g a a t a a g g c t t 60  
a a c a a a g a c g t a t a c t c t t t g c t a t g g a a a a a t a t t g c a a g t t a c t c c a a g g a a c t c t 120  
c c t t t c g t c t g g a a c t g a a c a a a c c c t t g t t c a a a c t c t t a a g c t g a a g a a t a t t c t g 180  
a a g a g a c a c t t g c c t t a a g g t g a a g a c g a c a a c c c a a a g g t a c t t t g t t a a g c c a a 240  
a t g c a g c a g t a a t t g g a c c a g a g g a g a t a g t t c t t g a a g c c a a a t t t c t g 300  
c a g a a t t a c c t c c a g a c g c a a a c a g t t g c c g t a a g t t a g t t t c t a c t a c a a g t g a t c a a a g 360  
t a g a c a a a g g a g c a g a a t t c c a g g t t c a a g g t t g a a a t t g t g c g c a g a c g t t 419

<210> 2974  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G1

<400> 2974

a g c c a a c g c g t c c g c c a c g c g t c c g g a t a g c a g t t g c a c c a a g g g a t c c a a a a g t g 60  
t a c c c g t t g c t g g a a a a a a g g c c c a t t g g t a a a g c a g a a a a a a a a a g g c c a a a a g a a g c 120  
g t g c a g a a t c t t a c a g t t a t t a t t a c a a a g t g t t g a a a c a a g t c c a t c c t g a c a c t g 180  
g t a t a t c t t c c a a a g c a a t g a g c a t t c t t t g t a a t g a t a t a t t a t t g a a a g g a 240  
t t g c t t c c g a g t c t a g c a a g g t g c a a g c a a a a a c t c t t a c t t c g a g a g a g 300  
a a a t t c a a a c a c t g t a c g c c t t t g t t a c t g g a g a g t t g g a a g c a a g c a c 352

<210> 2975  
<211> 326  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G12

<400> 2975

gacccacacg tccgcccacg cgtccgccca cgcgccgcg ttgtggcagg tttccgcgca 60  
ccacgaccaa caaaaggaca cgattattta tgtgaagctc tacttattga ttcaactcat 120  
tacgctccgg gagaggaagt taccgtgggt ttggtaaca agtcaacttc gaaagttaac 180  
cctggcaaat ggtaagtga aaatcctccg gttaatggcg gtaaccctcc aaagccatga 240  
accaaactgg caccaaaggg cccacttcaa gaaagttgtg ttgagcttat tgatggcga 300  
gttgatgaag atattggagt tgttgc 326

<210> 2976

<211> 354

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G2

<400> 2976

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agctgcttct tcaagtggag gagacgttcc agttcccaag atacctctca ttcgtcctct 120  
tgtaaacagg cgtgctgcag tctatcaaataat aatctcgaac tttatttctt catacactcc 180  
ttcaaattcg tcaagttacg acgtgcgtcc ctctgtgtgt tttgcccccc aaatgtatgg 240  
gagtggcaaa accatattag ggaagcactt tacggaattt gttttgttga accggcaggt 300  
tttagagaag tatataatcg ggtttcctgg aattgctggc agtggagtga gcgc 354

<210> 2977

<211> 281

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G3

<400> 2977

ctgcctcttc aagtggatga gacgttccac ttcccaagat acctctcatt cgtcctcttg 60  
ttaacaggcg tgctgcagtc tatcaaataa tctcgaactt gatttcttca tacactcctt 120  
catattcgtc aagttatcac gtgcgtcgct cagtggttt tgccccccag atgtatggaa 180  
atgtgaaaaa cagtattatg gaagcacttt atggaattt gtttgttga cccgcaggtt 240

ttaaacaagt atataatcg gtttcctgga attgctggca a

281

<210> 2978  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G6

<400> 2978

agcggacgac tggggattag ttgttagtggt gttgtctttc cagtagcgtg atactaggat 60  
gggaggttcc ggctactttt taaagtcaac tttgttttctt ggcagacacc cggagattat 120  
tccatggttt tccgctattt ctctgtgtgg agtttgcgtg gttttgtga gcatcgacaa 180  
cttggtttat aatccaaccg tggtagctct caagtcagag cggaaagcgt attcgacaa 240  
tgagaggcaa cgtgactatg aagacagacc cttttgaag ctggtaaac cacttcgtga 300  
ccgtcctatc agttttatcc ccccaaatga tgaaaatagc aggattcctc attagttgga 360  
tagtaaaata aatagttgtt ga 382

<210> 2979  
<211> 324  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G7

<400> 2979

gacccacgac gtcagccac gcgtccccc acgcgtccgg gaaggaggcc aaaatttggc 60  
ccaagatctg aacgagctca tctttggttt ccacagacat gtcgaacgac aatcagtctg 120  
agaagagcac tttgaaagaa gcggaggaga agctgcagag tgcagttcat actggaacag 180  
agaaaatggc tcaggtgttgc agcgacgtca agggaaactgt gacggagaaa tagaaggaat 240  
ggacagcgcc aaaaagttagc caagaagaag cataagatta agcacaagat gcgaaagaag 300  
aggctaataa agcttttaat gcta 324

<210> 2980  
<211> 371  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G8

<400> 2980

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caaggaagaa gatgaggagt ctagtgaagc gtcgtataat ccatcgata tggagtctga 120  
ggatgattcc gaggagtatg aaccagatga cgatgtggat acgaaggaac ttgaagagag 180  
ttctggtgga gaggccgaac taagttcaga agaagaaggc ttagattggg atgaaatgga 240  
aagacgagcc gcagaagaag acaaggaaaa gcgtcgctt ccggaagacg acagagaaaac 300  
gaacaaatcc cgcaagcgat cgcgtcggt acgcacatcgac gtccttgaag aataaattca 360  
acgcattttc t 371

<210> 2981

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G9

<400> 2981

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aactatggag tcagcaacag tgcaaagggtt gtttttatac gtttgcttca aaaagaaaaag 120  
cagtaactcg acatgtcaag ttgtttaaaa ttgttagctgg acaacacacg acaaacaacg 180  
aagaaacctc ttccaccaat cccttgaga gaacagttaga taccgagcag gcacaagggtt 240  
tgcataatac ttttgaagaa aaaccttga atgaaacacctt ggatagaacg caaagattt 300  
taccaattat ggcgcccaac aggtgaagaa cttttaggc agtatcgat tccgttcggc 360  
ctaaccaacg aacagttggc tgaaaagttt caactgttat cagaaagcat agaa 414

<210> 2982

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H1

<400> 2982

agattggaga aggaagttaga atggttcggt agttgttcgt gatggctcgc gaacatgctc 60

cttctattat ctttatgtat gagattgatt ccatcggttc aactcgatc gattcggaa 120  
atccggaaag tggtgactcc gaagtccaaa gaaccatgtt ggagctttg aatcaattag 180  
atgggttcga accacaccag aacatcaaag tactgatggc aaccaaccga atagatattc 240  
tggatcctgc gttgcttcgc cctggcgaa tcgataggaa gattgaattt cctaattcaa 300  
atgaagacgc cagactcgat atttaaaga ttcattcaag aaagatgaat cttgttcgag 360  
gcatcgactt gaaaaag 377

<210> 2983  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H11

<400> 2983

agcggacgcg tggcagtgg aggaagctgg agtatctgg aagattcttt gcaagttggg 60  
caagtggaaa ggctcgaaatg atcaaaagtt gatcatgtac ttgctatttag tagaacaaga 120  
actgacaaag aatgacacca gatggaaaga gaggaatgag cgacctcgga gatggtaac 180  
gtttgacgaa gcagagaaga ctatttgca agtggagagt ggtattcgaa ggcctgagct 240  
aataagaatg ctttaatag cgaaagcaag aataatgact ttggacaaca atccagagtc 300  
ttattccacg gactcttctc ctgaagagga gaataacgaa aaggaatttt aacgtgttgt 360  
tgggtttgtt gtataatata catatatata tgtgcgggtc aacaataaat tcttat 416

<210> 2984  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H12

<400> 2984

acccacaggt cagcccacgc gtccgcggac gcgtggcga ttttgcgcaa cctttgcattc 60  
ccctaattgggt tggtagagac ggcggaaaag cgaagccttt gaagaagcca aagcctactt 120  
cgaaggaact gacggaggag gatggaaat ttaagaaaag acaaaaggag gagcaggcca 180  
agttgaaagc agctcaacag cagttgaaag gaaagggcaa gaagtgactt tgcttctacg 240

agtttagctaa acaaacgctt tattttgttc tacaactatt cgggtacttt ttgatagttt 300  
ccgtgaacaa gaattaaaca ttctttctcg t 331

<210> 2985  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-058-Q1-E1-H2

<400> 2985

agccccacgctc tccgcccacg cgtccgcgga cgccgtgggc gtaactttgt gggtttcctt 60  
acaagatgtc ttttatattt cgtggaatca aaggccttca caatcctcgta tatggacaac 120  
ccgtggattt acccaccgga ataatgtata gcttgaagca gatgtcggtt attgtccagt 180  
ttgcgttttc tggtagtc attgctatgt tctcncaagt taccttttat ctataccgtg 240  
actttaagtg tgctttcgat gggcattggg attacgccac gcatacgaa gtgtctggtc 300  
ctgtgggtta ttgcgttac ttcattgtt tggggagcat ttccatcgta cttttagcta 360  
ttgttgccgt agctactttt ggaacgctgt attttgaagt tcctatggac tatatccttt 420  
a 421

<210> 2986  
<211> 374  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H3

<400> 2986

aggatattcg agtactttgt caatctggca attattcttc attaaccagc catactagtc 60  
agtatgatgg tgcagaaaagt tatgcgttt gcgactcgaa tcaagttctc caaggtgtcc 120  
atgcaactat ttatagtgac gataattata taggaagcgt acgtggatac tggatgtcag 180  
tcaatacttc aagcattgca agtcctgatt cttgtatgtt gaagaaacct ccagtatcat 240  
tgagaagcat tcgagctcgat tcctgaatgg cgttgcgtgtg tggataactg cgatatacat 300  
atatatatat tcaggtatcc acagctcatt tattcaggat gaacaatcac tttcgttagt 360

tgtcgtgtgt cgta

374

<210> 2987  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H4

<400> 2987

cccgccccaa gccacacggc aaagtcacca gccaccgttc tcgtgtgatg ttgcgaagca 60  
aagcaaaaaga gtggcgaaaa caccggaca taagtccgtg gacaaacttt aaggcttgct 120  
ttactggttt tggAACAGCC ttggcacttt ttaccggta tgTTGTTTT aaacaggcct 180  
aatactattt ttacaaccct acacagacgc aagtccccga gacgaaatcg gaagaacttg 240  
gctcctgagt ttctgtttct tgtaaagttt gacacccacg tctatcccta catgggtgtca 300  
aagacaggcc actgataagg ctAAAGTTT gtcctcggtt cttggccaa agtaataaaag 360  
agtgttatgt tttctc 376

<210> 2988  
<211> 373  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H5

<400> 2988

aggggcgcgc aacttccatc actgtctatg gtcaaagtgg ttggctgtcc accgtttcag 60  
tcaccacctt tatggttatc ttttcgatt atcagtggtt tatgtatatt cacttcagta 120  
acctttgtac aagttgatat gggagtagtg ttggaatggt tccgaaggct ttccctatcc 180  
atatttcgca cccgtggagt tttgcgtttg gcttggta tggcttgggg tgcccatctg 240  
tttgaagcct tggtagcata tcgaatatgt acaagacttg gtggtgaaa agatacgtgg 300  
aaatggacga tacaaacttt ttgcgttagga tattcctccc ttgcgttgtt gcagaaaagg 360  
gaaaggaaga cga 373

<210> 2989  
<211> 389  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-058-Q1-E1-H6  
<400> 2989

aggattgtga aaaatgtttg cagctagatc ctcaatttgc aagagcttat gccagaaaag 60  
gtgctattca tttctataatg aaagaatatac ataagagttt ggatgcctat caacaaggac 120  
ttcaagtggaa tcctaataat gcagaattga aggaaggatt gcagaaaaact ttgagtgcta 180  
ttgcagaaca acaacgctcc gagaaacctg atgaagaaca aatcaaacat gcaatggcag 240  
atcctgaaat tcaaaagata ttgatggatc ctgtattaca aaatttgcata caagaagcgc 300  
aatccaatcc ttcttgata cagaaagcaa tgtctagtcc aggaatggca gcaaagatac 360  
aaaaacttgt tgctgcaggt atttacgt 389

<210> 2990  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-058-Q1-E1-H7  
<400> 2990

aatgtcccggttcgaccac gacgtcagcg gacgcgtggg cgacgcgtg ggcggacgcg 60  
tgggtgaaga agcatatcgt gaacaacagc ggcgagcaga ggaagaaaaga ggcaaatacg 120  
ggaaaggcagt aaaagaagaa agagaaagga aaaaactgag tatcaggaag aaaagaggga 180  
gtagatgagg aaagaaagat caaggaagta agagtaagag aaggagtaat gtgaatgaaa 240  
gcagggaaagt atttgaagaa gagagtgtaa agcacgtacc tttgcataa tgtcccagcg 300  
agtgaaagag gaagcanaaa gaaagaaaaa gaagtagcca ggtaagaccc gaagctagtt 360  
gatcttatgc tgtccaagcg aa 382

<210> 2991  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-058-Q1-E1-H8  
<400> 2991

gaccacgac gtcagcccc acgtccgccc acgcgtccgc ggacgcgtgg gcggacgcgt 60  
ggggaaagaa atgtgggtga caagttgcaa aggacgcaag gaggaggatc atcgaatatg 120  
agagcactac agcaacttgc tgcgttcaa cacgatagct ttttatctca tcacaaaaag 180  
aatatattt atatgcctc ttcttctcat tgccaaaagt cctcactcaa gtggcttt 240  
cctagaaggg cggcatctcg tccttatct tgtcatcaag tatttgaat aaccccgac 300  
aacacctgcag ttgttgcga ccaacttgc aaatcattca gaatagcaaa gagtcgtgat 360  
agtaagcaac ctctcggt ggattccgt 389

<210> 2992  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H9  
<400> 2992

gcttccttg tagaaatggcgtccg acgatcagac gacaagactc ggctctttgt 60  
ggttgtctcg acaactatgt atctctctat ggatgttgcgt gtgtgaaatg aggtactcgt 120  
ataggttggc acgtttggc atccattgac tagtgaataa tactcgattc cgtatattt 180  
atctctttat ttctacttg tacataaaac tagttatgt tctggtagct ataaaagccc 240  
tttgcctatctt caacattttt attatttgtt gtggtaga gacgagatgg caatctccac 300  
tttgcttcga gaaagtagtg tcactatgac acccaatgtc ttgtcacttg aaatataata 360  
gaacataggc aatatttcgt gctgcaaagg cacttgcgtc taaaataaaa a 411

<210> 2993  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A1  
<400> 2993

agccccacgcg tccgccccacg cgtcggccca cccgtccgccc cacgcgtccg tgaatatatg 60  
gcaacgcacgg gctttgtttc atcgatcaa ggtgttgcgt tacgaccggc ttggaggaag 120  
caaactatcc gaaaccagca aacaaatacc atattgtca gaaaccacgc aaagtctcg 180

aaagtttagt tatacgatacc ccttttcattt cagcaaaactt ccaaggatga cgccggaaaccc 240  
gagaaacaat cgagtcaaca gggctccaaa atgtcaccaa ctactaggat tgcaggttat 300  
atcttttctt ttactattac tatggcactt tttgcagtca ctctggcggc tactttgtat 360  
cgctccttacc ttccgc 376

<210> 2994  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-A11  
  
<400> 2994

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aagagatttc agttttggc ttttgataag tcagaacacctt ggaagtatgg ttataacaaa 120  
ctacggtatac ttcaaggcga aataaagaat aaaaagtggc tgagtcctgg acatattact 180  
tcgaggaatg ataagaagtgcataaagtt cgacacgaaa gtgacttagtg tgcttgtcac 240  
aaggaggaag gtttgcaat gagagcccaa gtaatccatc aaaggagctg aacaaaaggt 300  
gctttgaatt cggaacagtc tcttgatggaa aaataaagaa gagcggtaac tcaaaaancaa 360  
ctggcaaata aataccccctt ctatccatc tctttatag gtatgcgctc caaaaatagtc 420  
acg 423

<210> 2995  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-A12  
  
<400> 2995

agccacgcgt ccgcgcctt cactggatcc ataatttaca tcatttagtag gattgaattt 60  
gaccatcacc aagaattctt caggtacatt tggatgttc ttccgagtgg taaaacctga 120  
tgtcgctgtt ggctcatcct ttatcgatgt gattgtgg gttttgttc caccaccacc 180  
aacttccgccc acaagtgcgtc caactgctgt aacttctgct cccatcacta cagttttcc 240

aagcagcgta accagtgcac caatctctac aggaattcca agtgggttta taagtactag 300  
tgttcccaact agtggctg gtgttccaa tggagcttct attatattac ctcaagcttg 360  
ctaaatcggt atagttgggt attgcaaata tctcgctgtg tgtgtgtgg tgtgtgtgt 420

<210> 2996  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A2

<400> 2996

aggaagaaaa cgatatatgg gcaattcagc tggttgtag tacaagttat aataatgaag 60  
tttccagtca ctttacggag aagcagaact ggtaatgaa tacaggagtc tatcatgaga 120  
ggcgccccaa aaagaaggga cttcacctg gtgcttggca agacgcgagt agttccaatt 180  
ctgataaaaga aggtctccat attggcccaa actgtcaact tgttagttgc tctgttgata 240  
acctgaaaga cttttgggt cagcaagttt atgaacaact ccagaaagta tactcgata 300  
atgaaagcgt ttttatgaag ttggatcctc tcgcgaagtt gttggaaaga aatcttgaac 360  
gattatggag gagcgatgtt cctgtggtgc ccg 393

<210> 2997  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A4

<400> 2997

agagtcaaac cagaagttct tatggacggc gatcacacca ttgaagactc acaaagagt 60  
acggagagag tttgtacga ggtatcat gcttacatc aacagcatgt attattagaa 120  
gggactcttt taaagccaa tatggttctt cgggttctg actgcaagga caaagcttct 180  
ccaaagaaaa tcgcagagta tacaattcgt acgttacagc gtacttgcc agctgccgta 240  
cctggcattt tcttttatac aggtggacag tcagaagaag aagcttccgt gaatctcaac 300  
gccatgaatc aagtggagat gatcaagcct tggaaacttt cttttctta cggacgtgct 360  
ttgcagtctt catgtctgaa agcgtggcaa ggaaaggcag agaatg 406

<210> 2998  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-A5  
  
<400> 2998

aaggggtttgcattggaca ctatatggca agaagcgacg acgaatacga ctattgttc 60  
aaaattgttc ttattggaga ttccggggtc ggcaagtcaa accttctcgc gcggttact 120  
cgcaacgagt ttaacctcga gtccaagtcc acgattgggg taaaatttgc gacgaaaagt 180  
gttcaaaacc gaagggaaga cattaaaagc acaattatgg gacactgctg gtcaagaacg 240  
gtaccgtgct atcacctctg cgtattatcg aggtgccgtt ggagcacttc tcgtatacga 300  
tatctcgaag aaggaatcct ttattggtgt agaaaaatgg ctaaaagagc ttctgtatca 360  
cgcggatagt aatata 377

<210> 2999  
<211> 375  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-A6  
  
<400> 2999

agcaaattga acaaattgtt gattcgctt gctttccca ggctcaagca tcgagcgaca 60  
acctgcgaga gttttttttt tctgtgtggt aaactgaagg agacaaaacg gaaagggttgg 120  
attgatcacc atgtccgtca acccgagtcc gtcagcgatc atatgtaccg tatggctttg 180  
atctgtttttt gtttagcacc aagtcaactt aatcgagaaa agttaataaaa actagcactg 240  
gttcatgatc taggagagtc tctgggttggatatcaccc cacatgatgg tgtctcgccg 300  
gaagaaaaga agaaaacttggataccgaaagcg ttttgcaaaa tacgagacga atatttacg 360  
tcttgatc 375

<210> 3000  
<211> 358  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A7

<400> 3000

agcgaaaaaa tgcagttgta cattcaacat catcaaatgc caaaggagg aaagaaaat 60  
tcttcaaaga aagaagccac aagtaaacct gcagcagcag atgctacaaa gacgacagaa 120  
aagtctggtc cggaagccaa gttgaaggga actggtgcat agaaacaata gaaagttgac 180  
tatgcattttt cctgttatgt tttgtgagtt ctgtttgata gtttccagct attctttgg 240  
tagtgaataa agagaaaaat ttttagattt acacaatcac cccacatgat ggtgtctcg 300  
cgaaaaagaaa aaaaggaaac tggagaccga agcgaaaaaa 358

<210> 3001

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A9

<400> 3001

agaaataaaac aaccaccatc aggaagaaca accattcaag gagtccgcgt cgaaagaagt 60  
caacgacaag ttgcacaaa cctatgccga aagcgttgcc aaggaaatca tagaaagcac 120  
cgtggagaa gagaatacg aacacacaaa gacagtggaa tggaccaatc aaatgtgtga 180  
aaaaatactg agcaagttgt tggagctgca aaagccttccaaatata tagtgcattttttc 240  
tttattgcaa aagaaaggag ccggattcca tactgcacg acgtgttatt gggatgccga 300  
atgtgaccaa tgctgtactg tcaaacatga gaccaatac ttgcacgtca taagcaccaa 360  
ttaagcgcgg ttcaattcac tagtcaaagt atcattctag cccgcacaca aatatgttca 420  
actcgta 427

<210> 3002

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B1

<400> 3002

aggaagaaaa gagagagaag aaagaaaaa agagaaaaac cgtactgaag accgacacaa 60

gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa ggaactaagc 120  
aaaaggatat ggtatctgcg gttagaacata tgaaagaagc agcaccgact gtttagcaaa 180  
aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc ctgccaataa 240  
gtagagaaga aatcgatgaa agtgaardcg agtaaaagat gaggtataga gaatggcggt 300  
cctaacagta aggatccaaa ggtagcgaag taaatagacg tttgaaaggc gtccagtatg 360  
aaaggagaaa 370

<210> 3003  
<211> 310  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-B11

<400> 3003  
  
ccggagaaaa aaaagaaaaag aagaaaaaaaa cccttctgaa aaaccacaca agttctccaa 60  
ggaaaaagg aaccanattt aggtaaaaaa atggacgata aggaactaag caaaaggata 120  
tggtatctgc ggtagaacat atgaaagaag cagcacccgac tgtagccaa aaacacagca 180  
ctctgcagaa aagagaaaat gtaaagtata gagtggtgcgg cctgccaata agtagagaag 240  
aaatcgatga aagtgaaagc gagtaaaaga tgaggtatag agaatggcggt tcctaacagt 300  
aaggatccaa 310

<210> 3004  
<211> 343  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B12

<400> 3004

caagcttca gccaaagcctt cggccaagcc ttccggaaatt cgttgttttggaaattaagg 60  
ctgaaaagga gaattatttc gcttccggac cctgaaacaa acactcatat atacatatac 120  
atatattttc tatagatata gctattttc aaatggtttc caaaaagacg aaaaaatcca 180  
ctgaaacagt ctcttcaaga ttggctctcg ttatgaaaag cggaaagacc acgttggct 240  
tgaaaagtac gttgaagagc cttcgtcagg gaaaaacaaa actcggtgtc ttggcaaata 300

actgtcctcc tcttgtgcgc tcacagattg aatattactg tct

343

<210> 3005

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B3

<400> 3005

gaccacgcgt cagggcaatt cgaatcatct acttaaagac accttttcc ctttcctacg 60

cacgaacgct cgtaatatgt tgtttcatgg ctctgttaagt ttatgtacga aaattataga 120

aaccaaagaa actgcatatc ttgaacgata caaaggctt tggatcctt gggaaatagt 180

ccttagtgga ttcagtgaaa gttgttactg ttccccggag gtcttgaa ccatcagctc 240

tagtatagtg acttttgcatt acaaactatt ataaaagtat ttcacggaaa gtattgaaat 300

ttttgacttt gcagtttgca gtcgtccagt aaacactaga ttactagtta aaaaatgtaa 360

acgttaagta ataaaataca tggtaaaacg aaaccaa 397

<210> 3006

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-059-Q1-E1-B5

<400> 3006

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atacgatcgt aaagttatgg cggtgtatgc agttggcaat gaaacggaag gaggatcgat 120

ggacgattgc gcaggagttg tggagttga agagaacatt actgcacact ttgactgtgg 180

attcacaagt ggttatagac aatgggtga atgttaggt acacttgaa tggtagaggt 240

ggaacgtttt caaggagctc ccgttcctaa taatacagaa gagaaggatc ccaatttgca 300

cttccagttt cgtcaacttg gagaagaag aaatggccgc attgaaaggg tagaaaggaa 360

aaccaaagac atttgggttg caaatgtgg gngaaaaaca ca 402

<210> 3007

<211> 282  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B6

<400> 3007

cccacgcgtc cggagtcaga gtcattgtt cgaatgttg aaattggtgc cggtagaagg 60  
agtgccttta gtttgtattt ggatgaagac gaataagaaa gtgacgaaga ggaagaagaa 120  
gaagacaaag aggaagaaat gggcagttag tatggaatga tagtgattc tgattccagt 180  
agatttatga gttatgacga agaagaagaa gatagttcag atgacgaaga tcaagtctct 240  
gatgttccca tgtttggcct gatcgatcat gaagaagaaa tg 282

<210> 3008  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B8

<400> 3008

agcgtatgca ggaaagaaga aggtaaagga agagaaggaa gaagcagaga gggactatga 60  
gcgagaaggt ggatagtcga tagggaaaaaa gcccataagc caagataagg tatcaaagta 120  
aagaaagaag gaaaaggaga agaagagagg taggccttag aagcagcaaa ccagagagga 180  
aagcgttaaa gcatgaaaga aaagaaatcc gaaaaagaag agaaaaaggg aagaaaagag 240  
ggagtagatg aggaaagaaa gatcaaggaa gtaagagtaa gagaaggagt aatgtgaatg 300  
aaagcagggaa agtatttcaa gaagagagtg taaagcgcgt acctttgca taatgtccca 360  
gcgagtg 367

<210> 3009  
<211> 439  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B9

<400> 3009

cgggtcgggc cacgcgtcag cccaaggcgtc cggccacgac tccgcccacg cgtccgcaac 60

atcatccgtc agaaatgcaa agtaaatgga gtatggagca aaaagaatat gaagctccca 120  
aagatgttga cgaaatccaa gaacaacaac ttccgtttat ccaagtgtgg aaacatggcc 180  
actcagatat aactgtttgt agaatattcg gagtgtgtat tggctcaaaa ggtctccgtg 240  
tattccagaa tactagtaag gcaaaaaaac aacttgaata ctgtggaatc aaacctcatc 300  
tttatgaaag cagtggagtt gaagagtggt taaaaatatc agcaatgtct aactattcaa 360  
ttcaacttga ccaagaactc cgttcctaatttgccttaag gaacacatata gcccatttc 420  
attgaagatg taacccct 439

<210> 3010  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C1

<400> 3010

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gtggcatgtc ctgtgcatt gggttagca actccttctg cattatgac tgcttctagt 120  
gtcgctgttc gttatggaat attgctaaa gaaagtatcg tagtacaata tctataaccac 180  
gctgcctgta tcattttcga taagacagga accctgactt gtggaaagcc aaaggctca 240  
gaagttcaag gtcttaagat agttcaggt ctcgatattg acaagataat aagtttggtt 300  
gctcaagtgg agagtcactc agaccatcct tatgcaaatg ctattgtcg ttacgcggaa 360  
gaaaactcgag gtttgcatgt ttc 383

<210> 3011  
<211> 418  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C10

<400> 3011

agatcattcc agtgctattc cagtgaacaa aaacggcaat gactttgtatgcaccc 60  
cgctcaatgt cctcaagata cttactactt tgacctcgat gataaatccg ataaccc 120  
catcaaattt tattggagat gggcacccga gtttccgat attcaatgtc ccatgaaagt 180

tccttctggc tctgttcccg gtcacaatta tagtttcct agtggtccag atactgttc 240  
atgtgatatac aatatcatgg acgctggtca atggaaattt tttgcaaagg atgccaatgt 300  
gtctactgca ggctattctc aaggcataag taatttgagc aaatgttct cttccgataa 360  
gagtgcctaacttttggat tgccgctta tgcatggaca cttcccaac tgaaaatc 418

<210> 3012

<211> 317

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C11

<400> 3012

cggcccaagc ctccggccaa cccgtcgccc aagcgtccgg gaagaaagag gcaaatacgg 60  
gaaagcagta aaagaagaaa gagaaaggaa aaaactgagt atcaggaaga aaagagggag 120  
tagatgagga aagaaagatc aaggaagtaa gagtaagaga aggagtaatg tgaatgaaag 180  
cagggaaagta tttaagaag agagtgtaaa gcgcgtacct ttgcataat gtcccagcga 240  
gtgaaagagg aagcaaaaag aaagaaaaag aagtagccag gtaagaccgg aagctagtt 300  
atcttatgct gtccaaag 317

<210> 3013

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C12

<400> 3013

agtggaaagaa gtcgcctact ttggtgccaa gtacgaacga ttccttggat aacaacttgt 60  
tgcttgactt gggtaataa ttagtattta caagaatggc tagtgtttcg ggtttccctc 120  
gaagaattat aaaggagacg gaaaagttac ttcaggatcc agttcctgga attagtgctg 180  
ttcctcacga agacaatgct cgttatttca atgtgattat ccagggcct gattttccc 240  
cttatgaagg aggaacattc aagttggagt tatttcttcc cgaagactat cccatggctc 300  
ctcccaaagt tcgtttcttg acaaagatat atcatccgaa tattgaccgc ttggaaaga 360  
tctgtttggat tatattgaaa gataaatgga gtccagcatt gcaaatacga actgtt 416

<210> 3014  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C2

<400> 3014

agcccacgctccgcattgt tgaatttcc tgttcgttt acttgtcttt ttgttgagtt 60  
atcatggcac gaacaaaaca aacagcacgc aagtctaccg gtggtaaggc acctcgaaag 120  
caacttggcaa ccaaggcagc aagaaaatcc gcacccgtaa ctggaggagt gaagaagccc 180  
catcgttacc gtcccggtac tgtcgccctg agagaaaattc gcaagtagcca gaagagcact 240  
gaacttctta tccgaaagtt gccttccaa aggttggttc gtgaaattgc tcaagacttt 300  
aagacggacc tacgttcca aacttcggcg gtgactgccc ttcaagaagc ctcggaagca 360  
tacttggtcg gtttggta agataccaat ctttgcgcaa ttcatgcca 409

<210> 3015  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C3

<400> 3015

cgaccacgctcagccccacg cgtccgtttt ttttattttt cagttcgtc tatttgcgt 60  
tttgatgtgt tatcatggga ccataaaaat aggccgcgcg caagtctact ggtggtatgg 120  
ctgctccaaa tcacttggta atcaaagcaa caagagcgat ccgcaccctt aactggaaga 180  
gtgtcgaagc cacatcgta gcgtcacggt actgtcgccc tgagacaaat tcttctgtat 240  
cacaaaaacga ctgaacttct tatcggaag ttgccttcc aagtgcgtat tcgtgaaatt 300  
gctcaagact ttatgaccga cctacgttcc caggcttcgg ccgtgactgg ccttcaagaa 360  
gcctcgggag catacctaatt cggtttgtt 389

<210> 3016  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-C4

<400> 3016

agcacgttca taggagtcaa tataacgttc ttcccgatgc attatttggg attaggagga 60  
atgccacgta ggataggaga atatgcggat ggatatgagg gatgaaatag gtagcgagt 120  
tatggatcga taataacggt gttatcgatg ttatactgga tgtggtttgt agtgaagagt 180  
tgggagaagg gtaaggagag tgagttaaagg tggaaaggaa ggagtataga gtggggatg 240  
agtaggatag gttatcataa ctgaaaggag gaggtgatgt tagtgaaggg gatgggtaa 300  
ggccgagtan gaggaggtaa tggaaatttg 60 atccgtgtgg tggtggttcg agtccaccta 360  
ccccagtgaaa ggtaatggag aagagaagaa ag 392

<210> 3017  
<211> 433  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C5

<400> 3017

tcccggtctcg acccacacgt cacgcccacg cgtccgccc cgcgtccgatg tgtctccatt 60  
tgctgtctct cgacgctcat tcgatcgatcg cttgttagca acctaagaga cttgtttttt 120  
tctctttgc tttctcttaa ctacggtaca ggtattgggg gtttggtaa agtattgcca 180  
aaggaaaga gtcacttacg ttcatggta cacgtaaagc tcgtatggg ggcttgcctt 240  
ttgcaacctc tccaaagaac ctgggagttt cacttccaaac aaatatggag cgaaatggaa 300  
agcgacagga aactgtgttt cggctgcga atagaaacga acagaaaacg gaaagcgtca 360  
agaaggaaag taccctcta gcttctatgt ttggatgatca ctcttcggaa acagttgaag 420  
gaaaaatctg tgg 433

<210> 3018  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D1

<400> 3018

ccggctcgac cacgcgtcag cccacgcgtc cgtaagaaa aaaggagtc attccaaca 60  
gggagtaaag gcgaagaaa gaaacccaaa gcaattgacg ggaatcgaa aaaggggtgg 120  
atcacgtaaa ttaatccgat taaaccgaga acttacctc tccaagaagg tggtgcacgg 180  
ctgtcgaaag aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga 240  
aggcaagtaa agggcggccc gagaaaggaa agggcgtaag acgtgataca gacttaggaag 300  
aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg 360  
aattcacgag gaaggagcgt gaaggaagga ggaatccca 399

<210> 3019  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D11

<400> 3019

ttcgtacga acctcgtt aagagtctgt tcaaggccac agtgctatgt tgcaagctt 60  
ggtgcttaac catccacgtt gagctttat ttttatctct ggtcttctc gtataggaca 120  
ctgataggca aaaacctcg 180  
acacttggga cttcgaggt ctatcta 180  
tttgtaagt tatctgctgc ttgcagtcga aacttcagga tgccttgtt tgaggcatca 240  
gctggtgctt gttgactaa gattctcca aaaatatctt ggataacctag agaaaaaaa 300  
tccatccaaa aaatttctaa gccaccagc caatcaagac aagggcaggg aaccacgaca 360  
gtgcttgctt gttgacacag 380

<210> 3020  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-D12

<400> 3020

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ggtgttatta taatatgcct tcttacaag aagatttgct tcattccagat cccgcgggtgg 120

aggcacgaaa acacaagttg agaaggcttg taccgagtcc caactcgaaa ttcatggacg 180  
tcaagtgcggc aggttgtttt cagattacta ctgtcttag tcacgctcaa acgggtggta 240  
tgtgtggaaa ctgttctact gttcttgta aaccacagg tggtaaagca agattaatgg 300  
aatcctgttc gtttagaaag aaagcggatt gagtgaaagt gnacaagtcc gctgtcatag 360  
aaacttaaga ggaatccaa caaaaagtct agtatccacg agtt 405

<210> 3021  
<211> 145  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D2

<400> 3021

caagccttcg gaaaaaaaaa aaggaaacaa atcaacaaag aaaataaaag aaaaaaaaaa 60  
aaaaacaaaaaaaaa acaaataaca gaaaacaaga aaaaaggta gatcaaatgg ggggaatccg 120  
aataaaacga taaaccttac atcgg 145

<210> 3022  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D3

<400> 3022

cgcgtcaacc cacgcgtccg ataagaaaaa agggagtcat tccaccaacg gactaaaggc 60  
gcaagaaaaa aacccaaaag cactgacag gaatcgcaac aaaagggtgg atcacgtggg 120  
gggatccgct taaacccaaa accttaacct cgccaaagaa ggtgttgcac tgctgtccaa 180  
agaacgtgct gtgaagttag acaacgtccc agaaagccac gtgaggaata caaggcaagt 240  
cgagggcggc ccaacaacgg agacggcgta cgacgtgata aacactcaga acaacccaga 300  
acacatctac aaatgaggtta aaacacgact aaaaacgacta gaccacgtac ggaattcact 360  
acgaa 365

<210> 3023  
<211> 408  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-059-Q1-E1-D4  
<400> 3023

aggggaaaat cccgttcaaa ttaggctaag ggtgcttggt attaccggca tggttctttt 60  
cgagtttgac gaagaagact tgctgtcagc agatgacact attttaacg tgggaaggtc 120  
tggagatgag tggtaagg agttgatgg ggaagaaagc aaccttttc gagtagcgtc 180  
ggaacagagc ttgagcggct tggcaagtac ttcttggatt gccgagtttgc actcgaggaa 240  
gctttttct ggagtgccta agaaggaatt taaagaaggt ggcgagacga cagtgattga 300  
ttatgtca aacgagttt atccaacctc cgcccctaga atatccgaac cttgtgcgtc 360  
gtctagctat tcacacgcaa tgcctccaac agaagcgtcg ttgaattc 408

<210> 3024  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-D8  
<400> 3024

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aaaaaaagtat tcttgcgtt agaaaaaagg ttccaatatt tggaatatct agaaaaaaagt 120  
gcgttggatc ccaataact cgtacctgctg tggatcgag acaatgtgca aaatactttg 180  
ccgttggatc ccctttgtt cgagcgttg gaacaagaac atgtggtaga tattgcagaa 240  
gaggatttcg atggccatat agatgatagc attcagcaca agatacagga actagaaaaa 300  
tggAACAAA aatggaaagtc gttggaaagaa ttggcatcga tggatcgac caccaatga 360  
cgangagggaa aggagacacg ataataagac catatTTCA tttttc 406

<210> 3025  
<211> 291  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-059-Q1-E1-D9  
<400> 3025

agcaaaaaat ggggaaagga caagcttga ttcaaacaaa tgaatggttt tcaggttat 60  
cgggattgaa cggtataaac actgatgaag aagaaccgac tttgtgattg ctgcgtcact 120  
gtagtcttt attttgtgaa tgttcacagg gtgccattca tgctgttaa tgatggagg 180  
gttagtaata attgttgaat atattttagg attttagtaa tctaaaaaaaa agccatgtg 240  
tttcttgaaa gggaaaaat aaaggatgtg acgaaattat ttgtcttgtg g 291

<210> 3026  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E1

<400> 3026

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aatattatgg cagacacaga actacttgca gcgattcagg aagtttaaa aaagtcttt 120  
atggttgatg gtgtgacgag agggattcgc gaatccgttc gatgcattga agccggacaa 180  
gcccaactag tcattcttgc ggaagattgt gaccaacctg gaataccagc gttggtagaa 240  
gcgctttgtg cgaaacaagg tgtcaacttg gtaaaggtaa cggagcgaaa acaacttagga 300  
gaatgggctg gcttgcgaa gattgatcaa gaaggaaatg ccaccaaagt agtagcttg 360  
tcttgtgtgg tagttaggaa ctttggagaa c 391

<210> 3027  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E10

<400> 3027

agcaaaaaac ataaaatatg tctttcttt tagaactttt aaaagaaaatt cgctggagag 60  
gactttgggg aactttcaa gcagccaaaa tgaatagact gggtacaatg aagtactttg 120  
tcggcgaaga cgagttcac aaccgatact ttcaaaaagt aaacgatgtt atgttgaagg 180  
atcgttgggt ggaatatgtt tctaaggaaat tcactcctga tccttattcg ttacctcctg 240  
agtggtagta gaatacttgtt ctttcgttta cttttctta ttttcttaggc atgcctggct 300

gcatcatatt atagatgagc caccacaaa agtaggttc cagagaccaa agtatcaagc 360  
acagatgtc gcaaaccgt a caggcacaac agt 393

<210> 3028  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-E11  
  
<400> 3028  
  
agcaaagctc ttccttata tctttgtct tggacaatgg ttgcaaagac tgctctgagt 60  
tgccttttc tctcttcct tatcgctgcc gcagttgcag ccgacgttgt ttcagaggag 120  
agatggggat atgctcagca aacccaacaa cagcaacagt gccaacaagt atgtaaacag 180  
tatgcatact atcagagtcc agtctgcact tccgtAACCA cacagagccc atactggacc 240  
caatgctcga agactgtgca aaccttgctc ccaagccagt gcagtactta tacccaatct 300  
cctacatgga cctattgcag cacctacacc accactagcg taccatctca atgaaacaag 360  
ggccttgact acctataactc aaacctgctg tgcttatgcc caacanactt cctatgcagt 420  
cag 423  
  
<210> 3029  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-E2  
  
<400> 3029  
  
ctcgaccaac cttcagcaa aatatttacc ccggaaacat aataaatatg gggctgataa 60  
tgtaaaaaag gctcctaac aacatgatgt ttgacatggg catcgatatt cagaacatgt 120  
atgtaaagtt cattttgac gagaatcaca agcaaaagaa aggcgagtt gtgcaagagg 180  
tgaaaggaa gcttgatttg gtggagaagt ttatgaagcg tcaagggaaa ctttattgg 240  
caagcagtga acctacgtt gccgattatc tcatgttga ggtttggac gtgatcaaga 300  
gacaacagga agatatttg aaagattcc cggttgtca aggtttctat gaaaagatgg 360

gtagccgtcc gaacattgtt gcgtatcgta aatccgaccg tttctatgag aaacctgtt 419

<210> 3030

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E3

<400> 3030

aggtcatatt gaagggtttc ataatattcc attggatcaa cttgcttcca gagtgacaga 60

agtaagtaag ataagatatg aatttgtatt aaagtttga gatgattaga ttcaacaaca 120

agtcaaccaa ggaaagcgca ttttggtgat atgtcgctgt ggcaatgcgt ctcaacaagc 180

agttgccta ctgtccagtt ggaatattca tcctgtatac gacattttg gtggtataga 240

agaatggcgg aaacaatgtg atccttcact tccttattat tagatgataa cagcatactt 300

tctttatttg gatgccacaa gtttctcgac gatggaaaca catcgatgac aaagttgtgg 360

atgtgtttca ttttgtttaa cagtcgttga aaagttccaa catcgaatgc 410

<210> 3031

<211> 279

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E6

<400> 3031

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tgggcgcgaa acaataagat tcttgccaac tagagtcgtat gcaaccatta ggaaagattg 120

tgttataata ataccagcga acaacggagt aaataatgtt tgatgagaga agtggaaagg 180

aagcttgatt tggtggagaa gtttatcaaa cggccgggaa caccttaggt tccaaggcatt 240

gataccaggt atgcccgttta acacatcttc gaagtttc 279

<210> 3032

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E9

<400> 3032

acgcgtcaga taaaaccacc gaaagtata tacctgttga ggactccatt atttcagacc 60  
tggctgaaaa gacacttatg tggtgtattg aattattgcc tgaaaatgag attcgcgaga 120  
aaactttatg tttgaaaaca attgcaagtt cggtggacgt tttatcaatc aactctaaga 180  
aattgttgc agttattcct tctaatttga atgcagtaaa taaggagttt acgacttgaa 240  
acgtgagcgt cagctctgaa cacccgaaaa gctcaatcaa cgacgatgga cgacgggact 300  
cgcttgtctt tagttgtcgc caatcagaag aagaatcgct ttctaacaaa caatacg 357

<210> 3033

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F1

<400> 3033

agacaataca gaagttgtgc ctgttcaga tgtcggagaa gttccaagtg tcgtgtttca 60  
ttttacccaaa atcgcaacc tggaaaacgt gaatgcagga gaattctgtg atgtacttgg 120  
aatagtgaag gatgtttcgg agttgtcttc tgggtttct agaactactg gcagtaccct 180  
ggtaaaaaaga acagttgtttaatggacga taccttgaag tcaattcgac ttactttgtg 240  
gaaagataat gcagaaaaat tactcaccc tacgtgaaggt aatcctgtt tgctctgtaa 300  
aggagttcga cgccggagact ttaatggaat ctcattggat gccactactc agtcctgttt 360  
tgaagtaaac cctgatatta aagaggcaca ttagttgcgt gggggta 408

<210> 3034

<211> 413

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F2

<400> 3034

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tggagaaagc agaaagccaa aagatagaga ttgcgaacga gtagagcacc ttgagttgt 120  
ttgttgttta tagataaaca ttgaggttgt gtttttattt ttgtaaaaaaaaaaaaaaa 180

aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 240  
aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 300  
aaaaaaaaaaa agggggggcc ccccaaaggg ttcaaactta attaaccggt aaaggaaatt 360  
taaaacccct caaaaatggc ccccaaattc aatttcccgg cccctttttt aaa 413

<210> 3035  
<211> 402  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-F3  
  
<400> 3035

agagaaattt ctacgcatac tttaaatagc catgtggatg tcgggttatac gtgacaagat 60  
cgtggattga tcaacaacca acgagagcaa gcgagctact atttggcgtg tcatacatgag 120  
cgagttggtt cgacctggtc gtttcttga tagcagttt ggagacttgt tttcatggc 180  
aaccgaccct ttttatcgag atatctggtc tatcacacca cgtagtttg aaggtcaaac 240  
atggtcgcct aggatagacc tttagagaa agacgactgt ttcttggta aagcggaaat 300  
acctggagta ccaaggaaa agatcaatgt agattgaaa ggtgatattc taacgataaac 360  
tggggagaag gaagacgaga aaaagtccga tgaagaacgg ga 402

<210> 3036  
<211> 269  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-F5  
  
<400> 3036

agccccacgcg tccgcggacg cgtggcgag gcggcaaaag gaacaaatgg ttgtttctg 60  
tcttttctc actctcgata tatgtatata tatatatata tgtatgtata tatatattat 120  
gcactgttgt catagtgtct gtgtaaaagc aacctattct ttatcgagac aacaacagca 180  
gtgaccattc tcactgaata aacttggta caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaaa aaagaaaaaa aaacaaaaaa 269

<210> 3037

<211> 407  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F7

<400> 3037

agcccacgctc cccggcaaaa ctgcctggg ataatgtttt gagactattt gaggcaattc 60  
gtcttttgcat ttgaaagggt tggaaagaaa tagagcctaa aaagttccg ttgtctctt 120  
gaaactgttg aagagatttc tttgtcctat atatgcagtt gtaagagttg gaggtattt 180  
aaccaaactc gagagacttc gaggagactc ccttttacat agtgcactt agcacgcacg 240  
caagtaattc tcccaaata gggcagttgt tacaaacgt atcgaagaaa ttcaaactcg 300  
atcgtaacg aaactaagat cagggagctg aaatcgtgaa tggtgacgt ccagaggaga 360  
cttggtaaaac aaagtttagc tatcatgcaa cttttca 407

<210> 3038  
<211> 353  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F9

<400> 3038

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tcgcgttcag gttcacacgg caatgaaagc gctttaaagc tataccgacg ttaggtgaaa 120  
acaagtcaac taagagatgg ggtgcttctc aagtaaagac ttccaaagca acggaaagaa 180  
aaagtacggt gtggatttga taggcttggc tggagccgga gcaaccacta tattgtactt 240  
ttttaagctt ggaaagcaaa tgatgacaat gccaacccttggatgtataa cgaaaaactgt 300  
gcagtacgga gatagcgaac tggtgatatg ggatatttggc ggactcgaca aag 353

<210> 3039  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G1

<400> 3039

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gagattgact cggttggaaa gaaaccttgg cggaaaaag gtgccgaact aagtgattat 120  
ttcaactatg gggttacgga agatacttgg agagaatatt gttagaagaca acaaatgatg 180  
agactttatt ctcaaatgtct gatgcccatt cgaacttttag actctggcgg tccttccat 240  
aataaccaac ctcattatta tcatcatcat aataataata tggactcatc cggtgaacca 300  
agtcgtaagg taccacgagc gacacaaaac agaagataca atcctccgcc tccttacaaa 360  
agtaacctga aacttcccaa tgaggcaacc gaagccgtgg actatgaaa acccaacgaa 420  
tac 423

<210> 3040  
<211> 430  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-059-Q1-E1-G10  
  
<400> 3040  
  
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ttatggcaac ctgaaattag ggagctcatc agtcgttca agacagaagt ttcccttgaat 120  
ggaaaagaga gaactttacg gtacattggc tcaatggtag ctgatgttca tcgcacactg 180  
cttaatggag gaatttttat gtactttcg catcaacaat ggccaaatgg aaaattaaaa 240  
ttactttatg aagcttcgcc tttggcattt attatagago aggctggagg aaaggcgtca 300  
actggcttg aaagaatatt ggacattact cctacaagtg ttcacgatcg tattcaagtg 360  
gtgattggtt cctatgaaga tgtagaattt gttgaacagc tttacanagg accttcaaca 420  
agtgatccta 430

<210> 3041  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-G11  
  
<400> 3041  
  
tacccttca gaagatcaag tacgagtctt gctctgctca atatgaagtt caaaagatca 60

agcagcaaca atgtactatg acagtctctg aacaatacat acagcccgat acttgctaca 120  
agtatgtccc tgaacaacaa ttgggcctc atacttgtt caagtattat tctgtacc 180  
agtttattga aaagtgctat cctcagtatg caacaacgga gaaatgtgt aagtatgagt 240  
atgttcata tgccacttct acaccttac catcggtatc tccaagttat actccttc 300  
cataacaaac aacttccggc taataaaaaa gccgaaaact ggatagattt ttgaagtgtc 360  
tcgtgttcaa agaaaacatg a 381

<210> 3042  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G12

<400> 3042

agccaacgca tccggagaga aaaactattt tgcaagcaaa tgaggaaaat attcccaa 60  
taataaccaa tcctcgtgg gtgaagttca tagtacgtgg ctatttgc tatattcgaa 120  
aagaaggaac cttgtggat actgcgagtc cagaggacaa caagaaggtg actaaattgg 180  
atgaaaatcg ttgggtttgc gatgctacag gaaaggagta ttcttattgc aactaccg 240  
atattttatc cggtgctata caagatgcga ctggttctt gaatgcta at gctttgatg 300  
atgtcggttc ccgcctaatt ggtcgccag ccgaagattt agccgctata tatgaacgtg 360  
acaaagcaga atttgatgca ttaattgatg acgttcttt taagccgttc atcttcgaa 420  
tac 423

<210> 3043  
<211> 108  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G2

<400> 3043

agggcaaatac caaaaataag ttggcaaaaa aaggtccggg tcccaccccg taccggcaag 60  
aaacttacccg gctttggcac gtaactttc caaaggccgg ccccccaa 108

<210> 3044  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G3

<400> 3044

gaccacgcgt caggtAACAA taaaatacaa acaggcaaaa actgcgtctc aggactcaca 60  
agaggcagta tataaggcaa gaaatttcac gggattacgt ttcaaagaac gagtcctcta 120  
aatgtggca ggaaagtatc tgaagaacag acttgtAACc accgtacctt tgcataatgt 180  
cccaccgagt gatagaagaa gcaaACAGGA agataaagaa ctatccatcg aaagacccga 240  
atctaattga tcttatgctg tccaatccaa gtaacgctga accagtatct gtggAACaaag 300  
atttggtata catggcataa cgggtgatat gccaaacaaa gctattgata tctggtaacgc 360  
ctcgaaagct atataagttag cgt 383

<210> 3045  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G6

<400> 3045

cgaccacacg tcagccccacg cgtccgcAAA tggacttg aatttagcga tgtgttttag 60  
tttttccccct ggttctcgac tcctgttgtt acgacaactt gagtagctt ctctcatTTT 120  
gtcaaAGCAG tcttcttgtt cttcttgcgt ccagtctttt gttcgact agcctgcttg 180  
atttgccttt taAAAAAGTT acagagtgtat gtatccgccc ctatttgtt tgTTcccttg 240  
aacaaAGAGA taggttgttt aaagcaagat aaggaAGCgt ttgatggact tgaAGAAATT 300  
ttatATGCGG tgcACCGCCA cgaaAGCGCC ccaaACGAAC gtccttgcac aagagAGATG 360  
gacggtctta acGCCAACAG ccgaggactc ttgtatAGC aagtgcctgt ggcttt 416

<210> 3046  
<211> 407  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G7

<400> 3046

agcggacgacg tgggcggacg cgtggcgga cgcgtggcg gacgcgtggg cgacgcgtg 60  
ggttacattt tgggttgtgg agtaagtgcg cttggcaaca aactaaaaga tggagaaga 120  
atcatcgag cttatatgtc tgacgctact gtacgtctc tatttagtgtt gaaaatgtt 180  
ttctaccta caataacttc gttctctatc actattgtgg gtcttatggg taagagttcc 240  
gacggtattt gggttcacag tggccacgcg aaatacgaat aatggtaat aaaattttcc 300  
ccttcaagta aaccaccacg gcataacttc ctattgcaag tatatcatgg ctgttagcagc 360  
tattggtttg gttatcagct tcttcagtt ttggatgca ttccctcg 407

<210> 3047  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G8

<400> 3047

tgcacccaca cgtacgtgtc atttcaatga ttggctaaa cagaactcga aagaagtgtat 60  
ttcttaatac gtatgaattt actcaaaatt tgtctaccga caacttcagg agtataacta 120  
gccataataa ttctctttgc ttctagtaca cggaggcgaa ctgtatctt gtccaaaata 180  
acttgcgcga ttctcaacct taaatgagag atggaaggaa cggctaaatg taacccttt 240  
taaacttcca tctctgcact gttccagaa taagttcaa gacgttctac tctaattgg 300  
aaacccgttt tttctccaaa atattccgtt tgtccgtcc agtttagtagc aatcaactggc 360  
agttcgtaat atattgcctc catgataaga cgtgcccagc cttccctca tggccaaa 420  
a 421

<210> 3048  
<211> 357  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G9

<400> 3048

cacgcgtcag cggacgcgtg ggcggacgcg tggggacatg tcgaacgaca atcagtctga 60

taagagcact ttgaaagaag cgaggagaa gctgcagagt gcagttcata ctggaacaga 120  
gaaagttct caggtgttga gcgacgtcaa ggaaactgtg acggagaaat acaaggaatg 180  
gacagcacca aaaagtagcc aagaagaagc aaaagaaaaa gcacaagaag ccaaagaaga 240  
ggctaataaa gctttaatg ctatgaaaga aagtgcgagt gccgcttcag aggctgcac 300  
agagaaaagca gaaaaattt agcaggagtt gaaggagtga agatacacag tagttt 357

<210> 3049

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-059-Q1-E1-H1

<400> 3049

agtcaacatt taataataca attgtaaaca taacagatat aaacggtaat actattgctt 60  
ggtcttctgc tggtaagttt ggatttaag gagctaaaaa agccacacct tttgcagcac 120  
aaaccacggc tgaaaaagca ggtaagcaag caatagaaca tggaatgcgc caaacagaaa 180  
taagaataaa tggcctggc tctggtagag agactgctat tagagctta caagcactgg 240  
gtttgaaaat aacaaccatt aaagatataa cacctatacc tcataatggc tgcaggcctc 300  
ctaaaagaag acgtgtttaa aagaactaga tataatttat gtttattttat tatataatta 360  
tatgaaaaag ttacagattt aatgtctaga atctttat canaacccaa caaa 414

<210> 3050

<211> 439

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H10

<400> 3050

ccccacgcgtc agcccacgcg tccgccacaa ggcccacatca tgagcggaga agggacacaa 60  
ggacaattgt ttccctggaa tacaaaacaa gtaattgaga atccgaggca gaataacgt 120  
gatcgaccca gtgttatgt caatatgaca gatgacgctg ttagttggct gaagaatact 180  
tttcaaggag tttgaaacc aacaaatcct gttgcttcga acaacagtaa taataataat 240

agcagtggt a tggaaactac ccttactgcc aacattgtac agcaaattgt aaagcgactt 300  
gctacgatgg agtcggagct tacagagttg cggtgcaaaa atagcgctct tgaaagagaa 360  
cgagaaaattc ttcttatgga gaatgagagt ttacgcaaag ttttggaga atggaaaaaa 420  
ggtggaaagac ctgtatgaa 439

<210> 3051  
<211> 339  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-H11  
  
<400> 3051

accacgcgtc agccacgcgt ccgttcgct catcgac aacgtccctg gcaaagtcaa 60  
gtagaacctg cagcagaaga gcagaaacct acctacgacc ccaagtgtt a tctgtcccc 120  
ggaaacagtc gtgcgggtgg gaagcaaaac ccgaaatatg acgaaacttt tttgtttaca 180  
aatgattttg ctgcactgtt accagataca ccattccctt aacaacaaga tggcgctgat 240  
caagatttgt taaaagtaga aggagtcaag ggaacctgta aagttattt ttttctcct 300  
cgacacgact ggactgttagc tgaaatgtcg gtggactct 339

<210> 3052  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-H12  
  
<400> 3052

ccacgcgtaa gccaaacgcgt ccgcacgcgt gtccgttaaa tactaacttg gttgcttagt 60  
aaatttgcattt gttatgaaga agctattcaa aaccccagga agatgttct tttcttaacc 120  
aagacttttc aaagttagtt tcaccgaaag gccatatggc ttccgagaaga cttttgtggc 180  
actgcagcta tatctcgtga atttatccga tcagactttt aagatttgc tttttggagta 240  
gatatagatt ctgttagctat agactgggtt ctcaaacaag gtttatttagt tttttccgtct 300  
ggtagtgata gacttgagct agtagtagca gactgttagag agttaggatggaa taaaagatcg 360  
tatgacgtta ttctgcca aactatagc t 391

<210> 3053  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-H2  
  
<400> 3053  
  
agattatgga gaataagact gtaaaagaac taaaattcct tgggtccaa ccaacaactc 60  
tctcaaaaaa ctaaacacaa atagccaaat aactggtcaa atatctaccc cacccactgg 120  
ttgtgctacc ttgcgaactg gagcaaggaa aggttccgtt accaaacata cccacaccca 180  
cgaaaaacttt agactatact ttttaggata ccaacttaga acaattcgca aaaccatcaa 240  
gatgaccatc actgaacaac tccagtttgtt gatgggttgc acatagccca cggccgtatg 300  
caccttttgtt tccccaaatag aagcagcaac tctagctatt gtgcttgctt gagagtcgtc 360  
cccaaagtgg tcgctttca ttgaccaatt gtacgaaagt ctccactt 408  
  
<210> 3054  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-059-Q1-E1-H3  
  
<400> 3054  
  
agcccacgcg tccgagttag ctcaaaatgt tttaaaagac catcgggcat ccattttcac 60  
atttgtgttt gttgaagagc agcatgatga agagcgctat gaagttcttt gtattttagca 120  
ttatttggc aaatgttgtt cttactattc aagcagcaac ggtttggag actttggagt 180  
cactgaaata tacagagtat cttgacatgg taaaggctgc aggccctggac tcgaagttca 240  
acgactctgc tggttacatgg actgttttg cagcaaacaa tactggagtc aatgccacct 300  
tggcaccaaa gcacttggtt atttctaata tcacatctaa tgcgacggag agcaaagaca 360  
ttgtggaata tactttgtac aaccataactc ttttgcaga tgatat 406  
  
<210> 3055  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H4  
<400> 3055

cgcgtccggt gactttgata gatatcattc attttgccta tccatccaat agcacaattc 60  
tgttatccga tgctcaatat tctgcattcc gggacaattt aaaagcgatg ggagtgtcga 120  
ataattttag ccacatagga gaaaagaaga aagaaaagaa tactcgattt gttgctgttg 180  
gtttgttgca gaactgtaaa gtatttcata cgagaagagg agactgtatg gcaaattttg 240  
agttgagaga tgcgactgca gtttgcctag tcacaatgtt tccacgagta tatgctcgag 300  
tatctcatct tttgatggaa aatgaacact ttgcagttcg tttaaatgtg gagtgggaga 360  
ctggaaattc cagtcaattt attgtcaaga acttggctcg act 403

<210> 3056  
<211> 353  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H9  
<400> 3056

aggtagaaaag aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga 60  
aggcaagtag agggcggccc gagaaaggag agggcgtaag acgtgataca gagtaggaag 120  
aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg 180  
aattcacgag gaaggagcgt gaaggaagga ggaatccaa gtaatcgagg aagaaaaaagc 240  
ttcggtaaaa gcgtgaacgg atttgtaca cactgcccgt caagttctgg aagtgtgcta 300  
ggaataagca ggaaagtatt tgaagaagag agtgtaaagc gcgtaccctt tgc 353

<210> 3057  
<211> 336  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A1  
<400> 3057

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ttttgccta ctgccaacat tgcaagaatt atgaaaaagg cacttccacc aaacgcaaaa 120

atagcaaaag acggcaagga taccgtccag gaatgcgtt cagagttgt aagtttata 180  
acgtcagaag caagcgacaa gtgtcagcgt gagaaacgaa agactataaa cggtgacgat 240  
attttatggg caatgaacac gctgggttc gacaactatg tagaggctct taaaatctac 300  
ttggcaagat atagagaagc tatgtctgca gagaag 336

<210> 3058  
<211> 349  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A3  
<400> 3058

gatcacgcgt cagtaacttg gctggttctg gtgcattccc gatagggtga tgttaacaaa 60  
gaagtttagct ttggagactc taccagcttc tgttatggaa cttgtggaag acgagtatgt 120  
tgcaatcgcg ttattgctac ttttgagca taacagagga gactcattt tctttaaatc 180  
atatttggac atattaccct cacacgacga aatcaacccc ttgttttgtt ggtcagatga 240  
agatttactg ctgttacaag gcagtccaac tttagctgct tgtcagcaac tgagagaaaa 300  
acttggaga gagtatacat atctagagaa ccatattatt ccacaaatc 349

<210> 3059  
<211> 169  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-A4  
<400> 3059

cgcgtcaggg caacattgcc atttcctttt ggagggaaaa cacaagacaa caatgtctcg 60  
tcncaagtgt ttctttgata ttgctatcgg tggacaacct gcaggaagga ttgtattcga 120  
gttggttctcc gatgtcggtc ctaaaaccgc ggaaaatttc cgtgccctg 169

<210> 3060  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-060-Q1-E1-A6

<400> 3060

agcccacgctg tccgggtgctg ctcttggac ttgccgccta tttctctata cagttgtgtt 60  
agcattttca gcaacaataa ttggacttga tgaaaggaag gcagataaca tatggAACGA 120  
tgccctatat tatcatggaa aagtggtaa cttttgtgca tattcggttt cgtctgtttt 180  
tgaagggtggc gaccatggcg catgtaaata tgtgatggct ttggcttcata tcagcttgat 240  
tttagtttc ttcttttgtt tggccttcctt tgtcgacgca ttgtatccaa ttcttacaaa 300  
gttctggttt gtggagcttg gtatcaacat attccttact atgtgggtt gggttggc 360  
aattgtggtg actgcaaagc g 381

<210> 3061  
<211> 372  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A7

<400> 3061

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aaaccacttc cagcaacgt aagatagcac ttgaagttga gaagacagaa tattgggatc 120  
aactctacaa aaacaacagg aacaaagagg aaccaaagga accagcatca gaaaatatga 180  
aaggaagtgc gtcacaacaa gttccaagt caaatgttgg ttatccttgc gaagacccac 240  
aggcagtcca acaggaagag gagacggccgc aagttgttga cgacaatgag acaaactctc 300  
ctcatgcaat tctacttgaa gctagcaaac tgcaagcaaa atatggagat tgtgataatc 360  
ttccaaacca ag 372

<210> 3062  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B11

<400> 3062

ccacgcgtac ggattccctt ggcagcgatg aatcaagttt caaagatggg agagatgccc 60  
ccgataagag tctatgagat tgtaacattc tattccatgt tctatcgta acctataggc 120

aagtcaatg tacaagtttgcgtacgact ccttgcata tacgcgggtgc gtatgatatt 180  
cttcgtgcca tacaggacaa gttcaatctt gaacccgggg gaaacagtcc agatatgtg 240  
tttcatcttgcgtacgact aagaagtggaa atgcttagga gcttgtgtga atgcgcataat gatgcaagtg 300  
aatgatgact actatgaaga cttgactgtt gaaagcgcca ttcgagtatt ggaaaatctg 360  
cgtgataaca agcctgtgaa agtcggtcct cagaacggtc gtcatac 406

<210> 3063

<211> 360

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B2

<400> 3063

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gaggcgggct ctccgatgct ctgatgaatg gcaacttttc ctttatctct ttggataac 120  
ttctgtcggtt ggactttgtc cgaatatttgcgtac atagaatatg acctttcgat 180  
attttctcca tgcatgtaca acatgtgtac ataaatatac caactttgtt tgaaaacatc 240  
tttatggacc agtaactgtt ggaatgcctc tcccatcaaa agactaggac ttggtccaag 300  
caatgattgt gggagaaata ttgtttccat tagttgcttggcgtac tagttggcgtt 360

<210> 3064

<211> 353

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B3

<400> 3064

ggtcgaggca cgcgtcagcc cacacgtccg attcatcggtt tcgtcttggg ttgacaaaga 60  
agactgaaag tttttcggtt gtggagaag acatattttgcgtac atcgactcat tttcatgct ctcgtggcaa 120  
atgatatttgcgtac atcgactcat tttcatgct ctcgtggcaa 180  
acttttacgt gtacgtaata agaacactcg tcagtttca actttgagtg tggaagagga 240  
gcagcgcttt gtgagggaat ttttggcgc tattttgggt ctttcttatt tgccacaaac 300  
aaaagttgttgcgtac atcgactcat tttcatgct ctcgtggcaa 353

<210> 3065  
<211> 368  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-060-Q1-E1-B4  
  
<400> 3065

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ggctgaagat tccatcgaaa ttgctcgaaa acacgc当地 ttggaccctt ttcttgactc 120  
ttatgtgaaa tacagatgtt gctctttc cgagttggtc tccgaacgaa agcaatttga 180  
ctgtgttaact tgtctgaaag tagtggaaaca tgtggaaaaa cctcagcagt ttctcaactt 240  
gttggaggca attgttcgac cacaaggaaa gctcattatac tccacgatta agcgcacggt 300  
cacttcttgg ctaactgcga tatgcttggc ggaaaacgta ctgggtgga taacgcgtgg 360  
aacgcatac  
368

<210> 3066  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-060-Q1-E1-B5  
  
<400> 3066

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caaagagaca aagttttga acaattggcc aaagttcgag agttgagaag aaatcttggc 120  
gtccttcttt caaaagcacc ttctcacgta caggtaaaca ttggctgtga cttttatctt 180  
gacggcgagt tggatgacga aggtctttta cttattgaca tggaaagaa cgtctttgtg 240  
gaaatgcaac caaaagaagc tctagagact acaatactga gagaaacttg gctggagagg 300  
ctcggtaat attatacgaa aaggtggaaa gattgagttt agctcggtgg attgctctac 360  
tgact  
365

<210> 3067  
<211> 379  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B6  
<400> 3067

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gatatgtcaa gtggctggaa taactacagt ggaacggaag gtaatggaa tgctggtgc 120  
ggtaaggaa agaacaagga taagaagact agtggagaac ttgcaaaaga tagttaaag 180  
ggtttggaa tggcagcctt gtcagcggtt aagctggttt atcgccgtgg caagtggtgt 240  
gtggataagg tggaggcgc cattgacgac cacaagtcaa aaggaagtaa gagtgccgt 300  
ggtgaaaatt cacgttattc tcgttggaaac gtaataacgt ggatagaaac agaacgagac 360  
ggtttttat atttggtgt 379

<210> 3068  
<211> 97  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B7  
<400> 3068

aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaagg gcagaagaac 60  
aatagagata taaaattaaa tacacgaaca agggagg 97

<210> 3069  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B8  
<400> 3069

agcgtagaac aatatgttga tacctaaaaa gaaccgaaac gcagtttatt cttttatttt 60  
atcgagtgga gtaattgtgg tgaagaagga cactcatgcc aaaaaacact tgcagcttga 120  
cgttcctaatttgaagtta tgaagatatg tcagagtctt acttcgcggg gatattaaa 180  
ggaacagttc agtggggttt acttttatta tactctgact gacaacggaa tcgattactt 240  
acgtcgatatttgaatcttc ctgtggaaat agtccccgaa actctaaaga agcctacttag 300  
accccccaggt gttcgccctt cgtcgtttcc atcagaaggt caagaaaaga ga 352

<210> 3070  
<211> 395  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C12

<400> 3070

agcacacgcg tccgggttat cgtgtggaag atagcgtcat tttattcgat ggagagtgta 60  
acttgtgtaa cgatctgta aacttgcct tcgaccacga ccgacaaggc atattcaagt 120  
ttgcagcggtt acaaagtcc gttggattgg cactgtgaa aaagtatcgc ggaccacag 180  
accttcgtc gctggttctc attaaaaag gtcgaatgct tctgaaatcc gatgccgtac 240  
tacgaattgc agagttgtt gacaatcaga cccttcgtat tttggcagtt gcaaccagag 300  
tgggtttcc gaggtggttt agagattggg tatatacaga aattatatcc aaatatcgac 360  
gtcaaataatt tggagagacc gatgtttgtc gtctg 395

<210> 3071  
<211> 371  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C6

<400> 3071

agaggaacct tggttggag atttccagat gatattttagt atggctatac tagtaacgtt 60  
ccagggaaatc cggtggattct atgtacttta ggaatggcgc aatattatta tgagttggca 120  
gcagagtggt tgaaacatga aaagattgtc ataggaaagt ggagcaaaga ctccccaga 180  
catttgaggg ttatgcctcc tcctccctc cctccctc aatcttctat atcaacgacc 240  
attactggaa aagctatttg tagttatgtt tctgcgtat tagaagaagg agatcgctgta 300  
ttgaatgcta ttcgaaagca tacagttccct agtggatgtt ttacagagga gattgatcga 360  
tatactggtt t 371

<210> 3072  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C7  
<400> 3072

gagccattgg ggcgcacaaca ctgggtgca gtgtgccag tgcgttgcata agaaacataa 60  
caagtccaaa cttttggac tctactttga tttctatcta gactggcaat gttaataga 120  
ctgagagtgt caagttaccc cttttgtcg gtagagagta acaatgggt tgcttacga 180  
agacggcttg tctacgcagt cgtcgacaca agaaaaaaag acagaccagg tcagaagacc 240  
aatgtgact cgataaaagag taaacaagcg tagttcttgt aacggagcaa ccgctgattc 300  
ctcttctaca tagccagctg gttgtgtcaa cgtctcctgc gtaggttggc tacggtataa 360  
c 361

<210> 3073  
<211> 147  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C8  
<400> 3073

gaaagtttc tacaatatcg attcgtttg gtaaacatgt ggttccttc cacagcactc 60  
gcatgtgaag atagatatat gctgactagg gttcgagcat ttgcatatta gatgaagtcc 120  
tgagcattgg gatgttaagct atacgtt 147

<210> 3074  
<211> 159  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-D2  
<400> 3074

ccccacacgtc cgagaaggtg ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa 60  
cgtacgagaa agccaagtga ggaaaagaag gcaagttagag ggcggcccgaa gaaaggagaa 120  
ggcgtaagac gtgatacaga gtaggaagaa cagagaaga 159

<210> 3075  
<211> 253

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-060-Q1-E1-D6  
  
<400> 3075

gcaagaagag aagagagcta gaaaggaggt aaaagaagag taaaaggact agaagaggtt 60  
cggaattcac gaggaaggag cgagaggaaa gaggtgtatg atgcaagcaa agaagtgacg 120  
cagtagatca gagagtaaca catgcaagta cgtaaagcga accggtaat aaagaggtgt 180  
gaaagagtgg aagaacatga aagcacagaa gaatgtaaga aatggttaga gtaaaaacca 240  
taaaggaagt aaa 253

<210> 3076  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-D7  
  
<400> 3076

agcccacgcg tccgggtggct tagaagaggt caaggtggaa ctgcaagaaa ccgtacaata 60  
tcctgttagag catccagaga agtttggaaa gtttgtatg cagccttcaa aaggtgtctt 120  
gttctacgga cctccaggat gtggaaagac ttacttgcc aaagcaattt cgaacgaatg 180  
tcaagccaat ttcatattcta tcaaaggacc tgaactgttg accatgtgg ttggtgagtc 240  
agagcacaac gttcgtgaag tttcgacaa ggcacgacaa gctgcgccat gtattctcg 300  
cttcgatgag ttggactcta ttgcgagatc tcgangatct tctgcangag atgccggtgg 360  
tgcaggcgac agagttatca atcaaat 387

<210> 3077  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-D8  
  
<400> 3077

agcgagttga aagagactag tgaagctggat atctttact tgaaatctt attggatatt 60

tgtgcacaga ctgaagaaaa cgtccttca aaagatgatc tttgttcgtt gaaggaggct 120  
tctcgtaact ttattgaatc gaaacaaaaa gtcgtttac atagtgaagc taatagaaaac 180  
tgtcataaag tggctgtAAC tggaagctgg agaagagaag aggctccatc gaaccacagt 240  
gtgttcgata cagcttacga aagtatagtc agtaatctac gagatgaagc tagcgccgac 300  
caaagtgaag aattcaagag gctttaaag tccatagaga catttgaaga aggagaagta 360  
gtttcctcag ttcttgcaac cgatgagaaa cagtttatnt tgccccttc acaaaagcta 420  
C 421

<210> 3078  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-D9  
<400> 3078

agcacacgcg tccggaaaga ggtcgaacca gtcgtgaaac acttggagct gtccgtggaa 60  
actttcgaa gcaatacacg tcgttggcc tcttgcttt tctccattct gaggagacta 120  
tacaaggctct cctctcaagt tgcatgttcc tttggcagt cgccacatca ccaaactact 180  
tccccttctt cttcatctgc acatggggaa cagtcgtgga gttctataag ttcttctgta 240  
caggatatgc cgatatctag aaggttata ggatatatgt tgcaagtaac gactctgttt 300  
atggccttgc tcatttagttg tttccgtata gttggctatt ttctggggaa tatgaaaaca 360  
gaaacgatat acgtttcaa cagagtgagt gctc 394

<210> 3079  
<211> 206  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E10  
<400> 3079

tcccggtgc ccccacgcgt acgaatttaa gaattcattc cagaaaactt aacttgggaa 60  
gtgaaattga ctacgaagca gtaatcaatc ctgaaaaag gtttaatgga acaaaattgc 120  
caaataattg gacaaaggcg ggtttgtttg cccctcctgg aaatagagac aaagtgagac 180

atgaagacat tatgaacgcg aattcc

206

<210> 3080  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E11

<400> 3080

agaatgtgcg gcctgccaaa tagtagagaa gaaatcgatg aaagtgaaag cgagtaaaag 60  
atgaggatata gagaatggcg gtcctaactg taaggatcca aagtagcga agttaaataga 120  
cgtttggaaag gcgtccagta tgaaaggaga aacgagtgt acaactgtcta gtcgtccaaac 180  
tcagcgaaac agcaataact gtgaaaatgc agttaaactag cagtaggacg gaaagaaccc 240  
ataattcttg actagatagg ttttagagagg aaagaggtgt atgatgcaag caaagaagtg 300  
acgcagtaga tcagagagta acacatgcaa gtaggtaaag cgaacgggtg agttaaagagg 360  
tgtgaaagag tggagaaca 380

<210> 3081  
<211> 390  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-E12

<400> 3081

acggacctaa ctgtagttcg ggtaactgtc tttcgtcagt ctttacgtga acaaagcccc 60  
tctttttgtta gaaactaagg ctttacgtca taaaacccat acattagtgt tcttgtggca 120  
caacttgtcca gatttgttga ataataacca aactttgtcg cggcggcag aaaatgacca 180  
aggcggcagc ttccaccagt gtaaagcaac tggttccaaa aaactcggac gataagaatc 240  
gaccgaataa agtgccttct aatcaaataa ggtctcggtc aactataaac cgtctaaagac 300  
tttatcgaa aaaagcatat caatataata agcatggaaa acgtgtatca ggagcangag 360  
attataactag taacatccca cagcctggtg 390

<210> 3082

<211> 352  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB190-060-Q1-E1-E5  
  
 <400> 3082  
  
 agcggacgacg tggcgccgacg cgtggcgga cgcgtgggt gactacagaa aagaaagcaa 60  
 tgtgcagcgc ttctcaatca cttgaatggt ggcaatttgtt aaaggaaaat gtagaccctt 120  
 gcacaccaac agataaacca aggacaagtt ctaaaaagga caagacaacg cttccttaggc 180  
 gaactccatt gtcggatatt acagagttgg tggtaggttc caacaagaaa taccaagata 240  
 atacgcaaca acaaccacaa ccacctacaa gtttttaccg accattgccca ccanaataca 300  
 aagagaaaacg actcttgctc ctgcataag accatggatg aaaatgtgaa ta 352  
  
 <210> 3083  
 <211> 396  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> Clone ID: LIB190-060-Q1-E1-E7  
  
 <400> 3083  
  
 gtggttggtg gtggatggga atgttagaa gcctctggtc atggcaact ctatcggtc 60  
 tacctactcg gatgacatca acttgcgaag aagaagaagc agttcaggac agtctatagc 120  
 caccactagg gaatcctttt cccgtaccag caacagtct agaggcagcg cgttgggtga 180  
 cccaagaaca atggttccac gaagacaaag aagaaggatt actgctcgaa gaaatgacgc 240  
 agtactcttg tctcttagtc gacttatagt ggaaactggg aggcgcgcgg attgggtaga 300  
 tgtgagcgcag tcgtggatg aaaagaaaat ggaaaccttg gtggacgccca tgctttggc 360  
 gccaagacag caggggcttg acgaaacttg tggaga 396  
  
 <210> 3084  
 <211> 275  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> Clone ID: LIB190-060-Q1-E1-E8  
  
 <400> 3084

gttttcttgg tagcagttgt acattcaaca tcatcaaatg ccaaaggag gaaagaaaaga 60  
ttcttcaaag aaagaagcca caagtaaacc tgtagcagca gatgctacaa agacgacaga 120  
aaagtctggc ccggaagcca agttgaaggg aactggtgca aagaaacaat aaaaagttga 180  
ctatgcgtt gcagtcctgt tatgtttgt gagttctgtt tgatagttc cagctattct 240  
tttggtagtg aataaagaga aaattttta tattt 275

<210> 3085

<211> 371

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F10

<400> 3085

acgcgtcagc aaacgttatac ttactccagt gattgggtgg tttatggta ttcttatttt 60  
gaatgcaatg ttttaggtt cattggctcc actgaatagc tgtgcacgac tcatattgc 120  
tttgcaaga gagggtctta tattccaaa gatattcgcg acggtgata taaaacaaaa 180  
tcctatagta tccaccgctg tagttgcttt tcttgctgcc atcgtgtctc tcattgcagg 240  
tttggcgatg ggaacatata atggcttgt tatgttgta acaacatcat cgcttctct 300  
ttatgtgggt catattattt ccaatcttac tttgggtatt ttctatcatc gtcaaaagca 360  
gctcaactgg a 371

<210> 3086

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F2

<400> 3086

agccccacacg tccgcccacg cgtccgcccc cacgccatcgat cgatttgac gacgactcca 60  
gcccggccca aggcaaccca caacttgtct tgtgtatcgc aacacattcc ataaaaaaca 120  
aagaattcat tacttgtctt tttatccaaat ccaacaactt tccgctctct ttccttgtct 180  
atttctctcg tatgaatatc ataaggatag caaagaatct catacttcc agaatcgatg 240  
tagaaaaagat gttgcgaatc actcaaccaa gtaagaccat tgctacaaca tattccgaa 300

aatatttgc gcgatgttat cttacccaaa gatttcctct tggtgcttac gcgtttccca 360  
gtgtcatcct tgcggtgtcc ttgagaactc ctgaaggaat aaaactttcc tgtgcttc 418

<210> 3087  
<211> 357  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-F4

<400> 3087

aagtattgca agctgtcgaa agaacgtgct gtgaagttag agaacgtacg agaaagccaa 60  
gtgaggaaaa gaaggcaagt agagggcgcc ccgagaaagg agagggcgta agacgtgata 120  
cagagtagga agaaaagaga agagagctag aaaggaggtaa aagaagagt aaaaggacta 180  
gaagaggtac gaaattcacc aggaaggagc gtgaangaag gaggaatccc aagtaatcga 240  
ggaagaaaaa gcttcggta aacgtgaac ggattttgtt cacactgccc gtcaagttct 300  
ggaactgtgc taggaataag cangagaagt agaagagagt acgaaaagaa gaaagga 357

<210> 3088  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F5

<400> 3088

agcgattcca agacggcgca gtaatcttgc tctccacgg agctcgccctc gacagaaaaa 60  
gacatgttga gctggctaca aaaaaaccac ttgctagttt caatattaca agtgtcaaga 120  
atgtttactc ttatcgagt cacagtgcgt ctttccctt aatcttcctt ttccgggttc 180  
gacgagtgcg tagacatgtc gtcttggtaa cgcaaccctc tattgacact ctaggtttcc 240  
tgtgcagcgt cgaactacct aaaacgc当地 gcagcaaagt cccaaagttt cgactcttt 300  
tgtttctccc actagccata ttgaacccaaa gtgtttgtca ccacttgcca cgacaacgaa 360  
tggttcaactc tcgtgtgttt tctcttgaca aaactcgaag act 403

<210> 3089

<211> 309  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-060-Q1-E1-F6  
<400> 3089

agatctctcc ttctcaccca actagtagaa gaatatgtt gcgttactt gtctcccaga 60  
ctgtcggtgg ttagagactt ctcgattctc cagatgtgcc aaagccaaga ccgtctcggt 120  
gcgacgtagt tcccagtgtt cacactcttga aagagtggtt tcgatgaact acagtcctta 180  
ttcgataact accgacaagt cagaaggaca tattgtcccc ggtactttt caagatttga 240  
gtttcctgaa gggccaatca acggtccaaa cgtcctgaac cctaacatac ctgaccctac 300  
agtgtccaa 309

<210> 3090  
<211> 356  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-060-Q1-E1-F7  
<400> 3090

cccacgcgtc cggtttttgg ttactgaag atgcaaaata acaaagacga tttttcctta 60  
gcaggctttc ttccacacc aaaagttgca gcagaagatt ggtcagacac gtatatgggg 120  
gactttacga gagagggcgt caaggacagc ttccgacacc tattttgcc aaacaactct 180  
ccaggccttg acccgaaaaa aactcagttt ttggctcacc tacagaacct 240  
cagttagtgc ctgagtgggtt tcctttcag gacagttctt cggagaccaa cgtaaattgg 300  
gtcaatttga acagctcccg tgttcaaagt aacgatacga cttgttccgt ttcaag 356

<210> 3091  
<211> 342  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-060-Q1-E1-G1  
<400> 3091

agcccacgcg tccggagaat gcttgcggag gaagacaaat ctgcgtatga agctcgctt 60

tcacaatata tcaaagctgg ggtcgaccc gatgacttgg aggagatgta taaacaagca 120  
cacgagcgta ttcgagcaga tccttcctt gagaagaaac caaagcgtga agtaacgaag 180  
catcgagctt ttgcgtcagag aaaactcact aaagaacgtg ctgtgaagtg agagaacgta 240  
cgagaaaagcc aagtgagggaa aagaaggcaa gtagagggcg gcccgagaaa ggagagggcg 300  
taagacgtga tacagagtac gaagaaaaga gaagagagct ag 342

<210> 3092  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G5

<400> 3092

aggtaatgc agggattcct atgaaggatt tgatcatttc atgttcatct ggatacatgg 60  
agaataaccac agtgatggac ttgaataatg tatacacact ggtgaggggt cctcaactta 120  
cgttggccat ctaagcacat tctggAACAC tggcattggc tcattggaa tcgaaagctg 180  
ctttgaaag ttttgagcac ttaattgcag ttgctaaaga gggatgtcta catatattgg 240  
atgtcatcca ttccaatagt gagcaataat ctattgcac tgattgcttc tcgcatact 300  
atttcaataa agtgatccta ctcttaatca tcatcatcat gactatcctg tgat 354

<210> 3093  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G7

<400> 3093

cgc当地 cactgtatag cagaagaggc tttcctttaa gtggtatgtc cggtgttagag 60  
tccttatcgg actgaggaag gaatagcggtt tggcacata taaagggttt tcgcaagtgt 120  
tagcttggaa gtagattgt aaactggcaa acggaatgtat tcaccactt cttataacct 180  
cttcaagtgg tttgggtttt tattccacag agtttacgac tactcttgca caaccacgct 240  
tagttggttc actgctaaca gcacttgtgg aatttcaaa gaaaaatgtc tctctgcctg 300  
tttcatatat tgaacttgag aaagtcgccc tggcggttgc tgtcagttag 350

<210> 3094  
<211> 360  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-060-Q1-E1-G8  
  
<400> 3094  
  
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tctggttaaa aaagaaaaaa aggagaaaaaa gaaagagaaa aaccctcttt tcgaaagcag 120  
acccaagaac tttggattt gtggagatgt acaaccaaag agagatgtct ctcgttttgt 180  
tcgttatccc agatatgttc gtctcaaag acaacgaaag gttctcatgt cgagactcaa 240  
ggtgccacct gcgatccacc agttacgca taccttggat aaaaacgttt ccaaacagct 300  
attccgcttg ttaatgaaat atagaccaga gtcgagggtt gaaaagagaa agcgccctacg 360  
  
<210> 3095  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-H1  
  
<400> 3095  
  
atcggatact ctaacctcga tggtttatca ctgcactcg gtagctgct ctggatactc 60  
gttgatgaat attgtaaact atttcctggg aattttgtat tcaaattctg tgctcgctca 120  
tccttggttt ctgaacagg tcgagaactt gtaacggttc cataagaaat ggaatccaac 180  
ttgctcatga aattgtcttt ccatttctcg ctcgtagaat ttctcgtact tgccaaagaa 240  
gccttgcgtct cgaaactga atgctccttt cctgatacat ttcaaatga aacctttcc 300  
ttcttggaaat taatcggtgt ttctaatgat gtattcaaag atgtattcca tgctcgtagaa 360  
gactgcttn caacaaaaga ca 382  
  
<210> 3096  
<211> 206  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-060-Q1-E1-H10

<400> 3096

ccacgcgtac gaaagaaaatc cgaaaggagt agaagaaaaag agagagaaga aagaaaagaa 60  
gagaaaagcc gtactgaaga ccgacacagg tactcgagga gaaagatatt aggtggagtg 120  
tcctaggtga cgtggaagga attgttgttt tgatTTTgtt tgtgtgtatt caatgtataa 180  
gcaagcaata aatagtttt tcctac 206

<210> 3097  
<211> 325  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H3

<400> 3097

cgcgtcagct caaacgtccg gttgggcctt ctgggtggaga tgccctggat tgagctacgt 60  
agtggcaact ccgctgtctt gagagacata actgcaagta ctgaaaaccc tgacataaaag 120  
gggagaacga cgacgaatct cagtagctgt ctgaattctg cacaaggaaa tggtagggtt 180  
gacttgtccc tgcagtgtac cttgacggat aaattttcat tgaagttct cgacaatcac 240  
tttaaattgg cgtgtttac tgataccttg ttttagttt taccatgctt atcctttgtt 300  
attactggta atcgtatagt ctgta 325

<210> 3098  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-H4

<400> 3098

tcacctgagt ttgtatgaaa aatgacggaa agcgacaagt cagtgcttgt tgtcctctca 60  
ggtccatctg gagctggaa aagttagtac atacaaaagc tgaacaaaga ttaccctgat 120  
cgaataggat ttagcgtaag tcacacaca agaccaccgc gaccggngga acaaaacgga 180  
gtagaatact atttgtttc cgagggaaaa tttaaaaaaa tgatagagaa tagtgaattt 240  
atagaatatg cgaatgttca tggaaattat tacggaacac gtttcaagc agtagagagt 300

gttctcaata gangaaggct gtgtgtgctg gacgttagacg ttcaaggatg ccgttccatt 360  
cgtcgagaa acatgaa

377

<210> 3099  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-060-Q1-E1-H5

<400> 3099

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gaaccagatg tgtcgaacct acagcgtgtc tgtgccggct ggcgatgact ttgaatttcc 180  
aaactctcct tgcttaagtg actggatct cgttcatttt gttccata gcaacgaacc 240  
tgtatTCgt gtatttcaca agtgcacatgt gtgctgctt tttagaacana gaatagttgt 300  
ctttcgggat ggcctttgtt tactaaaaaa ttccaaacagc tggttgttgt tggatgcttt 360  
gcgtgatatc acaaaacatg aaaaggacaa agaaaacccg ttct 404

<210> 3100  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H6

<400> 3100

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aaatacataa aagaatatttgc acaaggaata tggcagtccg agcgaagaca tattttattgg 120  
agaaaatttgc tgaaatagaa catcatcttgc cttttggctg ttctgaaaaaa ctccagctt 180  
gttctttgat tggtgctttt caaatcatga aggcgttgaa agtgttggat gctcaagttg 240  
gaagtttagta ttccatgtaa gaacattata ctatggac gaaggattca tctatataaa 300  
tattgcaaaa ggacacaaag caatctttt gtgctcgaga aacatatata tacataacttc 360  
ctgtgtta 367

<210> 3101  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H7

<400> 3101

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tcatttacca gcctccttgc gatatagttt acgtcaggta tcataaacag gcataacacc 180  
tgatattgcg taccaactcc acgtctcccc atgaatctgg tcccagcggtt ttagatgcct 240  
cagtcacaat agtcatagcc atagactcga cgttgctatg tacaaggtcg gttttccaag 300  
gaacttgagt catgtgtccc ataatttagat ctcgtcacac tcgactcgct tg 352

<210> 3102  
<211> 140  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H8

<400> 3102

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aaaaaaaaattc aatggaaatc atataaagaa aaaaaaaaaaga gggtaaaaaaa ttcaaagggt 120  
taaagggttt gatgcagtaa 140

<210> 3103  
<211> 129  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H9

<400> 3103

ccacgcgttc cgaaaatagg acagctcaat agcagattgg ataaggagtt aatgatgagt 60  
atacagttat gatacttaac ggtagtgtat acgaaatatg gatgtattaa ccgagtatat 120  
taaggaaaat 129

<210> 3104  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-061-Q1-E1-A1  
  
<400> 3104

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gaaacccaaa gcaattgacg ggaatcgaa aaaggggtgg atcacgtgga ttaggccat 120  
aaaccgagaa ctttacctct ccaagaaggt gttgcacggc tgtcaaaga acgtgctgt 180  
aagttagaga acgtacgaga aagccaagtg aggaaaagaa ggcaagtata gggcggcccg 240  
agaaaggaga gggcgtaaga cgtgatacag agtacgaaga aaagagaaga gagctagaaa 300  
ggaggtaaaa gaagagtaaa aggactagaa gaggtaccga attcaccacg aangancgt 360  
aaggaaggag gaatcccagg taatcgagga agaaaaagct tcggtgaaag cgtgaacgga 420  
tt

422

<210> 3105  
<211> 338  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-061-Q1-E1-A10  
  
<400> 3105

aatgtccggc tcgacccaca cgtacgcccc cgctccgct tccttatatt ctttgtgctt 60  
ggacaatggt tgcaaagact gctctgagtt gcctttct ctcttcctt atcgctgccg 120  
cagttcagc cgacgtggtt tcacatgaga gatggggata tgctcagcan acccaacaac 180  
agcaacagtg ccaacaagta tgtaaacagt atgcatacta tcagagtcca gtctgcactt 240  
ccgtaaccac acagagcccc tactggaacc aatgctcgaa gactgtgcaa acctttgtc 300  
ccaagccagt gcagttactta tacccaatct cctacatg

338

<210> 3106  
<211> 397  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A2  
<400> 3106

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ttcttctcca gtaactcagt tgcaaataaa gaaaagtggaa ataagaccgt cgtgtggaga 120  
acggatggcc tcaaacaagt tgtggcttc ctgaactaga caaggctta ggaggtggta 180  
ttcccataag ctccctgttt atattgttgg aagacgaacc taccactatc taccagtaag 240  
tattgccctt ctgctgcaat gtattccaat aaaatatatc aagatctagt tttagatgtaa 300  
aaatgaaaaaa gaacagtaag aagagaaata caggtcacga attcatgacg aaagcacctt 360  
gaaggaagga agaatccaa cttgcccagg aataaaaa 397

<210> 3107  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A3  
<400> 3107

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atagagtttc ggcgaagaga gttaaagaac gtttggaga agagtgcaga aatttggag 120  
acgggggttc aagagacgag aatctcctta aagacctgga ggaggagaaa aagtcactgt 180  
tgccgtacat tcagagactc gaggaagact tgcggtgccc aggagagggaa gctttttttt 240  
tggttggaga tgaagcacat tagaaacacg tagaggtggg agagttggaa ttgttcgggt 300  
tccatgtaat ccgtaagagc gttctggaaa aggtgtcttc tgaagaatag atacctacga 360  
aacctgtata ggtcgccac aacgaaactt cgggttcaaa agaataaata gtatTTTtat 420  
tgtaaaaaa 428

<210> 3108  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A5  
<400> 3108

ttccggctc aacgcacgcc tcagccccacg cgtccggcac aacagtagca actattcgaa 60  
aacaacagta tgttcagaag aagaatatgt agatatatgg aacaaagtta tcgtcgata 120  
cgactgggt gaccttccaa aattgagaag gaaaactagct tcgttgagg aaagggaaca 180  
accaacaacc acgccaagg agacaagagg acaaacaggt gactggctca ctcaaagcgt 240  
gccatcgaca tggagtactc cacaaggatgt gaatagtaac tatagaacag tggatgacaa 300  
aacggaaaaa gtatctaaag ggaacaaccg gcctttggaa aatttttc ggaatatta 360  
caccgaaaaa caactattcc tttgaggtgt tggtaagaca ggaagaaaaa gataagagaa 420  
g  
421

<210> 3109  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-061-Q1-E1-A7  
  
<400> 3109  
  
cccacgcgta cgccggacgcg tgggcttata ttctttgtgc ttggacaatg gttgcaaaga 60  
ctgctctgag ttgcctcttt ctctcttcc ttatcgctgc cgcaatggca gccgaggtag 120  
ttgtcagagg agagatgggg atatgcttag caaaccacaa aacagcaaca gtgccaacaa 180  
gtatgtaaac agtatgcata ctatcagagt ccagtctgca ctccgttaac cacacagagc 240  
ccatactgga cccaatgctc gaagactgtg caaaccttg tcccaagcca gtgcagttact 300  
tatacccaat ctccatcatg gacctattgc agcacctaca ccaccactag cgtaccatct 360  
caatgcagca aaggcggta ctacttatac tcaaacctgc tgtgctttag cccaac 416  
  
<210> 3110  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-061-Q1-E1-A9  
  
<400> 3110  
  
cggctcgacc cacacgtacg aaatgactct gtatggtcta cttctacagc ttctcaagct 60  
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gtatggttcc ggagacgtgt cattcttggc gcaacattca atcagtcgt atcccttca 180  
tcgctttcca ctggatccca taattttaca tcatttagtat gattgaattt gaccatcacc 240  
aagaattcgt caggtacatt ttaggtcct ttccgagtgg taaaacctga tgtcgctgtt 300  
ggctcatcct ttatcgatgt gattgatgga gttcttggc caccaccacc aacttccgccc 360  
acaagtgcgtc caactgctgt aacttctgct cccatcacta cagtt 405

<210> 3111  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B1

<400> 3111

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tttaggttaac aataatgcag atattcgtaa agactcttac tggaaagacc attacgcttg 120  
aggtggagcc ctcagatact attgagaatg tcaagtcgaa gatacaagac aaggaaggta 180  
ttcccccaga ccagcaacgt ttgattttg caggtaaaca gttggaagat ggtcgactc 240  
tctcagacta caacattcaa aaggagtcta ctctccactt ggtcttacgt ctgaggggtg 300  
gaatgcaaattt atcgtgaag actcttactg ggaagaccat tactcttgcgaa gtggagccct 360  
cagacactaa tgaaaatgtc aagtccaaaga tacaggacaa ggaaggattt ccccccagacc 420  
aaca 424

<210> 3112  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B2

<400> 3112

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tcactgaaga agacttcact ttacgtcaat gtctttctgt tttttccct gggttcgcag 120  
tttctttctt cgacaacgtt ttggttatag agaagtgttt cttagtgcgatcaacacta 180  
ttttggatgc acctccttcc aagtgcgtt agtcgctt gtgaggctt tgcgttcaa gttgcagatg 240

atcttctcta cttgacaaac gcttctattt cctatcatag aaataaagag tccagcgatg 300  
tttatgaaca ggtggttcat gttcatgaga gaatttggatc ccgtcttcct catgctatta 360  
tagacgatcc ggatggaaaa aagtcgcgag agtttaaag attctgaact tcc 413

<210> 3113  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B3  
<400> 3113

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cggtccaaca gcaactgaac ttgcacgtt gcttggaaag ggtggcacta tggcgctta 120  
ggcaaatgca tccgggaaac cattttgtat tcctactact ctatttacaa cacaagatat 180  
ttcactgaaa ggattctcgta tgcttaattt gttaaagtcc aagtcagagc aagatgtgaa 240  
gaaaatgttgc caaatgtca cacaatgtat ggaaaatgac cagttgaagt ttggatcgaa 300  
aaggaaaaag ttggaaacaac tcgaaacaac attagaagcg ttaaccacaa aagaaacctt 360  
cacaggaaag atcactatit ttagttacca aaaagggaga gatgtacttg agtggtcgtt 420  
gaa 423

<210> 3114  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C1  
<400> 3114

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agcgtcccccc agaggagttt actgttgcac catcgtagc gattccaaag gctttgagac 120  
atggcgccaa tatcgatata gaagatgtgg atttggatcgaa gatcaacgag gcttttctg 180  
tggttgcctt ggcaaataatg aagatattgg gtttggatcc atccaaatgt aatgtgtttg 240  
gaggtgcagt agcatttagt catccacttg gctgcagtgg tgctcgaata gttgtactt 300  
tattaaatgc actaaaacat cgccaaaggaa agatcgagtttccgcatt tgtaaccgaa 360

ggcggtggtc cgtctgctt ggttttcaa acggaataaa ttttttatt tttgct 416

<210> 3115  
<211> 330  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C10

<400> 3115

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gcaataaagg cataaaactcc atttttctta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa agaaaaaggg aaaaaaaaaa aaaaaaaaaa agaaaaagaa taaaataaaa 180  
aaagaaaaata aaaataaata aaaatatatg gggtggtcga gtctataggt taaaattta 240  
gttagtcttc tatactagtt tatgggtgta caaattgtta ctttgattta aattaactgg 300  
ccgtcgaaaaaaaacttttggaaatggaaaa 330

<210> 3116  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-061-Q1-E1-C2

<400> 3116

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actccttcta ctctagagaa aagacgaaat agtgactcgt tattaccttc acaggcggaa 120  
agttaaaag atggttcaa acaagtggaa gaacaacaca gacgagattt aaaaaagctc 180  
gaaaggcgt ataaaagcgc tgtgaaacag ctgcaactga agcacagggatgcaatg 240  
ttgaaagcaa agaatacagg tggtgtaagt aaggaagagg agaagtgacc cataaagtca 300  
tgagggagat tgtggagtg ggaatgtgc ctctcgtcc tttcttctg aggttcagan 360  
gaatgtgatg ggagaagtta acatcattat agagaatatt tgtatataagg aactacgata 420  
ca 422

<210> 3117

<211> 362  
 <212> DNA  
 <213> Cyanidium caldarium  
 <223> Clone ID: LIB190-061-Q1-E1-C3  
 <400> 3117

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gaattcccta ctcgacccag gcgtacgggc aaataaggg aagcagtaaa agaagaaaaga   60
gaaaggaaaa aactgagtat caggaagaaa agacggagta gatgaggaaa gaaagatcaa 120
ggaagtaaga gtaggagagg gagtaatgt aatgaaagca ggaaagtatt tgaagaagag 180
agtgtaaagc gcgtacctt tgcataatgt cccagcgagt gaaagaggaa gcacaaagaa 240
agaaaaagaa gtagccaggt aagacccgaa gctagttgat cctatgctgt ccaagcgaag 300
taaggctgaa ccagtatctg tggaaaaaga tttggaagag atggcataaaa gggttaaaag 360

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cc 362

<210> 3118  
 <211> 409  
 <212> DNA  
 <213> Cyanidium caldarium  
 <223> Clone ID: LIB190-061-Q1-E1-D1  
 <400> 3118

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ctgttctgat gtttaatat ctgttagacct tgccaaggac ctttgactg cacataagaa   60
ctcggttgct gttattgtct caacagagaa tataacgcag aactggata gtggacatga 120
gcgttctatg ttggttacca atacgttggat tcgtatgggt ggtgctgcaa tattactaag 180
taatcggtcg aaggatagaa aacttgaaa gtatcgaaa aatcatacgg ttcgaactca 240
tttcggagcc gatgacaatg cttaccgtag catatatcaa gaagaagata gtgaaggagt 300
gaaagggttt cgactgtcca agtccattat gtatattgct ggtcaagctc tgaaacacaa 360
cataactact ttgggacctc ttgtttgcc tattccgaa catattcga 409

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<210> 3119  
 <211> 331  
 <212> DNA  
 <213> Cyanidium caldarium  
 <223> Clone ID: LIB190-061-Q1-E1-D10

<400> 3119

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tataggatgg tagtttatcg aaaggacta gtaaatatgt tacaaaatgc tttaggagag 120  
tttaaagatg ctgttcgtca ggagaaaatc aaagaggact tttccaaaag cgaatatcac 180  
gttacaaagg gagagaagat tcgtgccat agacttcaag cacaatatgc aagaaaggca 240  
acgaagactt ggaatatatgtat caatacgctg ttggaaagac agtcgagagg attctaattg 300  
gatatttgta tgtggaggag cttaaggaaa a 331

<210> 3120

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-D2

<400> 3120

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agaaccttgt gacaatgaga atatattagc ttcattgtat caacagttga aaactttaca 120  
attcccagct gtacttgccc cactagagac aacaccacgt ggaaaacacg ttgcacaagc 180  
caactatacca gagtcgtcgt cgtcagtgac caccaagaa aatatgacgc ccaagttgca 240  
agcaatagct attgcactga aaaaccaact tgtgcgcact acagaacaaa tggaatattg 300  
gaaacaaaatg tatgaaactt gtgaagaaca acgttagagaa tggaaagcac aatggaaaga 360  
aaaact 366

<210> 3121

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E1

<400> 3121

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cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaaagc caggtgagga 120  
agagaaggca agtagagggc ggcccgagaa aggagagggc gtaagacgtg atacagagta 180

ggaagaaaaag agaagagagc tagaaaggag gtaaaaagaag agtaaaagga ctagaagagg 240  
tacggattc acgaggaagg agcgtgaagg aaggaggaat cccaagtaat cgaggaagaa 300  
aaagcttcgg tcaaagcggt aacggatttt gtacacactg ccccgtaag tcctggaagt 360  
gtgctaagaa taagcagcag cggtaaaacg tgtgttagcaa gcgtagagca gaagaactgg 420  
g  
421

<210> 3122  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E2  
<400> 3122

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ctgtacttat tcttaacttt ccaaagcaca gtggatctt gtagcaatc aaggtcaata 120  
gtctgctaaa ttcaaaagtt gcttcctga agcggcatat cactctatac cagtatttcg 180  
atggttattt gatcgtctt tgtccgttaa cttaatttc tgtggagttt cttgttgctt 240  
aatgataat ccaacattgc ctccaagcga atgaaatcct ttgtgtatcg tccggaaaca 300  
ttccgcattt cgtgtgttt aacgaacctc gattcagcaa atacttctcg gtccgttcaa 360  
ggacatgaca tctgtcacgt attaattcaca taatgtcata tacttgcct gtttactca 419

<210> 3123  
<211> 308  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E3  
<400> 3123

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ggaagctgtt ttgcatactg taaacaactc tcttcgaag tggaatggcg cgctgaatta 120  
tgtggatgga agacgcaggg aaatcgact aagtgtttt gaaaagggcc agatggaaaa 180  
gtgcacgtac tcccatcaag tttctccaa ctttgcagtt gctgctgacc ttcgtttgag 240  
tcgatctgga tattagcgtc taggcggcat gggtaccaaa ctacctgatt gatgagtcca 300

taatcctc

308

<210> 3124  
<211> 321  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-061-Q1-E1-F1  
<400> 3124  
  
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tacttccttg ttctatgaca actgtctctt ggcattgtgc acattgaaat acggcgaagc 120  
gggttatgt cttgaagtac caactaatac attggaaattt ttgcaagttt ttcatcttga 180  
atccactatg acgcaaccca ctaggaaaga tagacgatga atcttctaaa taaattaaaa 240  
gcaactttt gtttcaaaa cataaaagaa tagcataacc caactaataa aagaatgaaa 300  
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321

<210> 3125  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-061-Q1-E1-F2  
<400> 3125  
  
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ggtagaacac catgaatgag aaggcaggtt ccggaaggaa tggactt agctagttgt 180  
gagtgaaata gaaaagctac aggatcatcg gcagcagtat tttcatgccaa tttcctaaa 240  
ggtttctctg caatacttct aaaacagcaa attgagcgcg tacgatcttc tgcatgaatg 300  
gcaatgcgac tcgggtggaa aggattggaa tgaagccat aagagtgagc gcaagaaaca 360  
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422

<210> 3126  
<211> 421  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-061-Q1-E1-G2  
<400> 3126

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agagtctggt tatctgact ataataaaatc gcgtgtgccc tttaaaagcc agtggtcacg 120  
agatttctct aaatactgta ttaagggcag aaaaggccct tcaaacgaga agaaaattaa 180  
gtatttagcct tttcttgga cttggcttga aacaaaacac gtgttcagca ctccatctgg 240  
tacaggtgac aaatgccacc ttcatgtacc tggatatcag cagtgtacg ggaaacgagg 300  
aacccgcata tagacaaact tttgaaaatt taaggattgg tcaagtattt gaaggaaaca 360  
gtggaaaagt tgatgccata cggggctttt gtgaatatag gaccgaatct ttccggactg 420  
c

421

<210> 3127  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-061-Q1-E1-H10  
<400> 3127

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aagatcatgt aagagaatga aaagagcaag agtaggaagt gtaacgttgt acaaaggaga 120  
aaggaactca ataggatcaa taatgaacag gataggagta atactagtgta taataataat 180  
gttaatagga gaaatatgtta gaagagaaga aatacagtta acagtaagag aagagataaa 240  
gataataatg ctgttggaa taataaacca tatagcaatg tggatagtaa agaaatgttg 300  
ggagtatatg aagtaatagg aggaatagca gtaataagtg gaataggagt aataatgagt 360  
aagaaagggg tagaattcagt agtgtatatg a

391

<210> 3128  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-061-Q1-E1-H2

<400> 3128

actcagacaa ccaatggatt ttctcttggc cgagatgaac atcttgccaa gtaaccctt 60  
acttacaaac caaacctgtt ttgctattgg gagaaaacttt tcgadactgc gtaggaccgg 120  
ggattccttt gtagcgtgtc ttccactcggtt caagctagt cttgaatat ttcgacaagg 180  
cgctgtgcaa tattctgggtt ttcatcacgt ggcgtgttgtt caagaaatac aagaactgct 240  
tcagtagcacaatataaa aagggtata cctagagctg agtaaataacc aaaagttgt 300  
gccagtggtg ctcggaggaa aataggattc gaggaaagat ggttcaacca aagaggcgtg 360  
ttgttcacgt agactgttcc tggtaaaccg tgactggat cgaattcata tttctgacta 420  
ga 422

<210> 3129

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-H3

<400> 3129

agcccacgcg accgggggtgc gcagagaaaag gatggctgctg gacgaagacg agtttgg 60  
caagtgttta gaaatacgtc ccgacgccag ttgttctttt cgcactagga atagggaaac 120  
gggtatttcc gaagccaacc aaagtactttt atggcctgggtt ttgtcgagaa agaatcgtat 180  
gcacaggaaa ttaaacttta cagacctgaa agtgggttgc cctgctttca aaaggggacc 240  
aactcttaga atcttaagaa atgttattat ttgtcggtt tttgatttaa gggcgcttgt 300  
atttcatgaa aaggtacaaa tatttgcaccggaaaacctt caatgttccc aagttcaga 360  
gcagcttaca acaagtctgc agtcagctcc aaagtctggc agcaattta ttttgaa 418

<210> 3130

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A3

<400> 3130

cacgcgtcca gacttagtgg cattcaacga acgatgaagt tccagtagt gaggctttt 60

ttggctctct tatgcgtagg ttctgctctg gctgctgaat tggcacctgg aattgcggaa 120  
aaaccggtag agagaggata tgaggaaccc tgctgtaccc aatattgtta ttgggaagaa 180  
atatgtatca cacccacacc cacacctaca ccaacctact attactatta ttacgcaaga 240  
aatgcataac aggaaaatgt cgatagaagc gtagaaaaga gtatctttc cgcagaaaaa 300  
tctgtatgcgg ttcgagggta tttccccacg tactactatt atgagactcc tacatattat 360  
tactattatg agactccatc cccaaaccccg acaccaacgc ct 402

<210> 3131  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A6

<400> 3131

acggacgcgt gggctgcata tctctgatgg ataatatata tatatagtcg atggaaatgt 60  
gatattggaa gataggaatc catccaccaa gcatcatctt attgcacgt gtgagaattg 120  
gaatgatgca ataagagaac agtctgtta tcgagttgg aaacgaatga aacaaatagc 180  
agcagaaaaat gaaatatttc aaatggaaac ggaagcaacc gttggattat ttcatgcgat 240  
ggagttgcat cttgtggaca ttatccaagc aactcgacaa caacaacaac taggaggagg 300  
aacaagaagt agcaatatat atcgaccatg gaccaataga ttgactattc gtgaccttt 360  
tcgtttgacg gaatatgctc aagatatatt gggagataa 399

<210> 3132  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B1

<400> 3132

cggggccggcc cacgcgtcca gagatatcgc tgtattggtg gtgtgtgtg gccaaaggaa 60  
gacgggatga ttgatccaaa ttagcactag gtggcaatag gcgtcggtgg ctgtgcattc 120  
tatgatataa tagctgccta tgtgacattt gaaggatact ggccaccaga ggaatgaagg 180  
cgcatgaaac aatttgcggc aaatgcgggg aagcagcaac gaggagttt aactccgtgt 240

gtttgtccat aacgaaaacc atcttcggg tttttgttc atcaacgctg tcaaaaagaa 300  
ccttctgtga agtgagagaa cttagagga ttccaactta ggtaaacatg gcaactacat 360  
g  
361

<210> 3133  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B10

<400> 3133

cggacgcgtg gggttggat gtctcgcat tcagtatcc aagtggcaca agagaacg 60  
ggtaacttgt tagaaagtcc ttttggat actttaacca attcactgtt ttatgttagat 120  
atcgatggaa agagaatcca tcagtatgaa ttggaaacag agactcactc cagttggaaa 180  
acgagtcaaa gagttggttt catctgcct gttcctaca gtcctcaagt ggaaacagt 240  
ttgggtggta tggaaagatgg tctttattgg atcaagttgt ctagcaataa taatagttagt 300  
aacaatactt gtgtcgaaca acaaataatgg agccacggga tggcacccaa tatagttcg 360  
ttcaacgatg gaaagtgcga ttcgagtgga cgacttttg ccggactaat ggattatcag 420  
tggg  
424

<210> 3134  
<211> 430  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B11

<400> 3134

ccccacgcgtc cgaaaacaag ttgcctgagt gaaaagttag aaacttgcgt gtatccgtga 60  
catcaacatt gttcaacgtg acagacagat gaaacaaaag tacattatgt agcttagttac 120  
ctatgtcaa tcagcttatg atagcaactt tcttagagct ttgcacgtt gttacgaaa 180  
caagcaagta gctcaacgtt gaacatatca atttcaaaag ataaattggg aaacaaacgt 240  
gcactaaaa accacacatg gttttactc taaagttaca agtaacattc actcctgtct 300  
ttcaggctgg tgtgtcgaa gctgaggagc tgcaggagct gccatgggg gtggataaac 360

tacagcactc ccagtgtagt atgcaggagt aaaagttcg tattgagtga acaaaggatt 420  
gaaacccccc 430

<210> 3135  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B12

<400> 3135

aatcaggttc gacgaagcag agcaaggatc gcaaaactat caaagagctg aaagccgagg 60  
ccttggagac taaaaaaagc ggcttgaata cacgctccga aaccgtggcg cacgacgaag 120  
taacaactct ctcctctgca atatctcaag tgagaattga cgagccaaa agtagtgcca 180  
agtgtgctgc agagaaagaa aactgcaaca acgtcattcc tggcgacaac aaacagacaa 240  
ggtcacaagc aatcggAACCGTGGCGCACGACGAAG 300  
gtagttgttt tatatttcgc tgatatgcct ttgtttctca aaacatattg aaagctttt 360  
aatgtgttaa agagactgat t 381

<210> 3136  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-062-Q1-E1-B2

<400> 3136

cggacattta gtgtgttgt tgcgattgaa agagagagag caaaaagtat tggagtgtt 60  
taaaatgtca agttttctaa ctgcggcagc cttgtcattt cgtggcgat tacaacaac 120  
acaaaaccag tggaccaaca atggagtagc aaggagactt tatcacgaaa aagttagtcg 180  
ccattatgaa aacccaaaggat atgttaggttc tctagataaa aacgacaaat atgtggcaa 240  
cgattttctt ggttggaga agatatgtt tctgcacgat ngtgttata caaagctgct 300  
acagaaaagat tagtgactat ggtgggatata aacacggaaac caaatgccaa agagattcta 360  
gaaaagt 367

<210> 3137  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B3

<400> 3137

aggttcggtg gaaatgagca acgaaagacc tgtttatgac gatatggcat ttcttactta 60  
tggcgttagga attagacgcc aaagtatctt ttatggcaac tcacttacca gacaagttt 120  
tacggataaa aagcaagttt ttcaaaaacgt tcttggaat ataaggcaa gcaccacaga 180  
agttccgaag aaaactctcaa aggttaaaaa ttacaagaaa aactcgagtc acttgaagtt 240  
tcccctgcag caggatttgg aggatgataa cattttgtg tcggaagagt cggttcaaat 300  
aatcaaattt cacggttcct atcaacaaga caatagagag caaaggaaga aaggggaaca 360  
aaaaaaagtac caatttatgt tgcctccaaa gt 392

<210> 3138  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C12

<400> 3138

accacgcgtc cgagacatca gaaacgggtt atattcaacg aaggtaatg aaagcaatgg 60  
aagatattat ggtcaattat gatcatacgg ttcgagattc tggaggtcat gctgtacagt 120  
ttctttacgg agaagatgga atggatggtg ctattataga gcgc当地 attcattcta 180  
tgcgaatgag tgatagagaa ctggagattt cctatcgatt ggatcccttc gatgcaaagt 240  
ttggatttgc accaaatggt aggcgatatt tagatataga tgtttggag gccggtcata 300  
atgattctga gctgccgtc ctgttaatc aggaatttga agctatcaa gaagatagag 360  
atattattgag acattccata tttccctagaa cagacgataa tcgtgtagca ttaccggta 420  
atattg 426

<210> 3139  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C3  
<400> 3139

agaagaggag ttatgagaga aaagatggaa gtaatagaag tggtaagtgg agtaataatg 60  
aatcatatga aagaaggaat ggagaatata aggaaggatt acatgaagga ggagataata 120  
ggagaaaatga taaggtggat atatatatcg ataataagtg tgatagtaat ataaaggagg 180  
agaaagagag gaaagaggtg tatgatgcag gcaaagaagt gacgcagtag atcagagagt 240  
aacacatgca agtaggtaaa gcgaacgggt gagtaaagag gtgtgaaaga gtggaagaac 300  
atgaaagcac agaagaatgt aagaaatggt tagagtaaac agaaaaggaa gtaaaaggag 360  
ggaatgaagg gaagttatgg caaaaacacg tgccagcagc 400

<210> 3140  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations.  
<223> Clone ID: LIB190-062-Q1-E1-C6

<400> 3140

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gtggaggcct ttttgtgggg aaatatgtgt ctctatttct tcaatatatt cttggtgttc 120  
tttatctatt gggttggta aactgggtt tgattccta ctgttgaga ctatcgct 180  
ttgacttcat tgaaaagga ccaactggga aaggaagctc agttgcata ggtatgtcc 240  
taagaagaag caatgttggt tggttggta tgtgttgggt gtggattgt tacatatata 300  
gagagagtgt gtgtgagaga aaatgcttt tgagtgacca ctcctaaaa ggcagtgtga 360  
acaaatcctc acanagcana agaggaaaat aaaagctct 399

<210> 3141  
<211> 235  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C7

<400> 3141

agacagaaga aagtgtgacg agtttgaga tatctgacta tgagtggaa gtattgagta 60  
gttttagacc tagtaaggca ttgcgagaaa gactttgca aaatatttct caaaggcgtt 120  
ggagagacga agcgttacgc cttgttcacg actccaaaca cttgacgatg ttatggagta 180  
acgtagttt acgcaagtgt ttatataatc ataaagtctt ttcgacctt catac 235

<210> 3142

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C9

<400> 3142

acccacgcgt ccgcccacgc gtccggcgat ttgttagttat gtttctgcgc tattagaaga 60  
aggagatcgc gtattgaatg ctattcgaaa gcatacagtt cctagtggtt tgtttacaga 120  
ggagattgat cgatataactg gtttcgagca aggagctatc aatthaactt ggagttatga 180  
tgcctttgtt actgcgggtt ggtcgaggga agatgttcac aagttgtttt ctaaatattg 240  
tgaacctcct tctccatcgc tacctagtat gccaggacct ggtggtttat cttctccata 300  
ataagaggca ctgtgcact ttggatattt ttgtggttca cattaa 346

<210> 3143

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D1

<400> 3143

cgcgtccagg tataaaaaag ttgttaaagt atccaagtag aaacaaatag gctggaaaaa 60  
tactactgag ttgacagcaa ctctattta tgtctttta ctccaactct tttcttcgt 120  
cgcttagacac ggtgaagag tctagttggg gactgaagat agtaagtata tttcagaatc 180  
cgagctccta gtgtctaata ttatatttag gcaaggtctg cttcctcggg tccttttcg 240  
atcgaggaag tgctggtaac tggtaaatca ctcgtcggga agcagaagac ggggaaat 300  
ttaagccaaa gtctgaatcc ggaaagattt agaggagact caacaagaac aactcgatgc 360  
tcaaattacg actttgtttt ggaagaagcc ttgggttagg ggcgcctcct t 411

<210> 3144  
<211> 425  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-D10  
  
<400> 3144

aggtagaaaa ggaaccccaa caatatgact ggaaacccta tatcgagttg tgtgaaatga 60  
tgaaatcagc gaatctaaaa cttcaaactg tacttagttt tcatcggtt ggtggaaatg 120  
tgggtgatca gtgttatatt ccattgccaa agtggatatt tgcagttgca gaaaacaact 180  
ctgatatctt tttcaaggat agagatggca atgccgatga cgaatatctt agttgggta 240  
tcgatgaaga acccgtcttg atggaaagga cagctgtcca agtataccgc gatttctttg 300  
tttctttcg ggaaactttt cgacaatatt ttggaaatgt tattagtcaa gtacagatag 360  
gtctaagtcc agctggggaa atgccttatac cttagttatca gttggccaaa tggacatttt 420  
gtgga 425

<210> 3145  
<211> 179  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-D2  
  
<400> 3145

acccacgcgt ccgctttcaa atattctttt gcaaaaaaac gaattgccac aattagtcgc 60  
aaaccaatat cctatggcg 179  
tttataaaaa agagcgcaag gttcggactt gttctccaag 120  
tagggaaaa ttctgtgttg ttttagagac atctattata aaactgtcta taccgaccc 179

<210> 3146  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-D6  
  
<400> 3146

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ttgaataact ggaaagctat tgcagaagat cctgaactgg

gattccggc aactctagaa aaacctgctc agaagaaaaca aaatgaatct ggctctgtca 120  
acgagaaaaga tttcaagttc cccaaagcaa aggtctgtca aaaacgattc aacttggta 180  
tagacctgtt tgtatcaagc ctggaatctt ttgaggatta taatgcagt caacaatcct 240  
cttcctcggt ggtgattgac gcgttacagt ttaatcgaga tataactgaag gaacaacctc 300  
tggtcatggt tggagatcct cgtggagttg tagaaataacc agagaactca gaaactggag 360  
agttacgtct tccgtttgat gtgggatgtg gactagttat tctcagtttgg 414

<210> 3147

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D8

<400> 3147

agggcatggc gaaaggtaga ctacaggatc gtcttgagaa gcttctgcct tataatcaga 60  
cctggtattt ttatataacc aagatagttt ttacgtatg cactttatt ttctctgtcg 120  
tcattgctgc tctggtcagt aacgcaaagt ttaatatata tgataaatcc ccaccgaata 180  
ttcatggaga cttttgtgca tacaaggcgt cactagctga gccagctggc gtgactgcca 240  
tttgcagta cctcatagca gtaggtgctc ttggccttgtt gtttgctata gggttcgttg 300  
cattctctct atggaccctt ttggcacatc gagtgattga tttatggtgg gtcgaagcct 360  
tgttgaatac ctttggatg gtctggtggt ttatagcagc tggagttgct a 411

<210> 3148

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D9

<400> 3148

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tactccttcc ttgaaatgt tgaaaagact ctgtttccgc tggtagaac caagccatcg 120  
cttctatcga ttataggaa ctgtctattt acaggatgct gctatcatcc ctatacgtt 180  
gctagaaaaga gacgaagagt ttagacaatt caagaaccag attttggttt ctaaggacag 240

agatgaaaag acaaaagaaa gactcagaat aagacaggaa gtacttcaag agttagaaga 300  
acaagggatg attcgaagga agaaaccaa gaactcttca tatgacccc aaaaatggaat 360  
ttatatggag agatacttga caacagtacg tgaagttgt gaggagtatc tgtttggaat 420  
agacaacaga  
430

<210> 3149

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E10

<400> 3149

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acaactgttag atatacgacc cgtaaataga aagttatcg taaatagacg caaagtaact 120  
gaatttagcgt tttgtacggt tggtaactga tcgttggta taaaacgaga gaaaataggt 180  
cttcgtaaac gttgatattc ctttaccata gaatagactg ggaaatggac aggtAACGTA 240  
gtttctgctc tctctaataa gcgtaaaaaa gcttcacgaa catccaaaaa gggaaacctcg 300  
gaagcaaatc tagtaatggt agctatatga gctacaataa gttgtccttg atcagaacct 360  
tgtaacgagt ttccaattt cc当地atattt ctgtccagtg cttgtttctt tgcaagcttca 420  
tccttaagtca  
430

<210> 3150

<211> 432

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-062-Q1-E1-E11

<400> 3150

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aatcctttca aatattgagc ttggaccatc gaaatcctcg gtatattttt gaataaaaaaa 120  
cgagaactaa tatggaaaaaa tatcgaagag ttgagcgagc caaaagtccg ggccagactc 180  
cgccgaatca agtacgaata actgcggcgg gcaaagtgcc agcctatgtg gactatgcag 240  
tcaagttgct tcaagaggat aatggcacccg tggaaatcgt cgggctgggt aatgccatca 300

ataaggctat cactgttagca gaaatattga agcgaaaagt cnccaagttg gagcaagtaa 360  
caaatcttag ttcggtgact attgaagacc gctggaaacc attggaagaa ggcttggacc 420  
ctattgaaac ga 432

<210> 3151  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E2  
<400> 3151

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ctaatattcg acaaacgagca tggaagaaac tgctggtgct agtgcagctt ccgcaagtgg 120  
tgccgcctaag agaagaactt ttgcgaagtt ttgcgtaccgc ggagtagagt tggatcaact 180  
attggacttg aacatggaac aactaaagga gttgttcaac tgtagaatcc gaagaaagtt 240  
gaatcgcgga atgggtatca aataaaaaac actgttggaa aagttgcgaa aggcaaaaaaa 300  
ggaagccccg gaacacgaga aacctgaagc tgtgaagacc cacctccgca atatgattgt 360  
tctgccagaa atgattggaa gtgtcgctgg agtttacaac gggaaaaact 409

<210> 3152  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E3  
<400> 3152

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gtcataaaacc ttacgacgaa gaaattcctt gtgttagtag agaatacaag gaaatatcca 120  
attcatttca tccttccgaa gacgatttggaa tatttgccaa tgatgcacta ctttatggtg 180  
atttaggaga agaatggcca tcgaatagtc catggttggaa atggaatcgt ccaccacaac 240  
aacaacttga ttccgtatcat ccaagaaaag atagtcacaa ggaggatatt ggagaagaag 300  
ttttttcggt ggatagtttta tgaaatcatt ttcatgataa tgaatggcaa cttagacttgt 360  
tatcttccttc ggagagtaat aatagtaatg attggtttat taagacac 408

<210> 3153  
<211> 335  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-E5  
  
<400> 3153

tgtcattata gacaattcgc cttctgcata tggatcacat gaggagaatg cgattcctat 60  
tggaaacatgg tggatgatc cattagatga agaactctta aatttgccttc ctttcttaca 120  
ggccttatgt gtctggctg atgttcgctc tattcttagt ctgcgtgaaa caaaaggagt 180  
tttattgcac aatttagtat ctatggacc ctatcattca tcattgagaa aattctatgt 240  
tagatggcaa ttgataatt gtttgcttga tcgttgtctc tgcttctatc tagtagtctt 300  
tataataaac catcttacat acagttgagt cccat 335

<210> 3154  
<211> 312  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-E6  
  
<400> 3154

aggaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaagga aaaggagaag 60  
aagagagggt aggcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 120  
agaaaatccga aaaagaagag aaaaaggtaa gaaagaggac cgaatcaggg taagaggtag 180  
aggagcaaga agagaagaga gaatgctggg tggagtagcg aaacaagaga agggaaagtaa 240  
aaggtaagaa agaggaaagg tttacgagag aaggaaagtag aaagaagaga gtgttaaggcg 300  
gcgtcataat ag 312

<210> 3155  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-062-Q1-E1-E8  
  
<400> 3155

aggggatctc tctttttt gtggggagag gtgattggcg actctgtcga ggaagcaagg 60  
cttgggaata gaactatata ttcacatcat tttccatcat ctttctagaa attattgaag 120  
aagaatagtt gtgagaatat gagtcattat tgtggtgtgg tggtatttg 180  
tgtccttgc ctgctagtct atggagagtt ggaacaagaa gaaaaagatt gcgttgcgtt 240  
tttttatgtg taaaataatag gaacaattat gcgagtgccg cttcttcatc ctcacacatt 300  
aggagagagt gtctcatcat aggacttagt aatccaggaa ccgagttgag caataactcgt 360  
cacaacctgg gcttcaagt attggattat tatgcaaata gatattctt ca 412

<210> 3156

<211> 422

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F11

<400> 3156

aggaaccacc gcgtcattcc ttgttgtta tccttgatg gtttccacct catatcgact 60  
agttcgact acaacagttt cttcaagcg tggattatcg caagcagtga aaagcgatca 120  
agctacttct gcttcagaag cgccctaagt ttctagtggg gttccctcct tacatcccc 180  
ggaaataccc aaagatgctg tcaagtttc attgaaacct tttgctactc acctcatcga 240  
agctccagaa cccgttgctt atgctacgaa agaacagttt ctggcatatc atcgacgat 300  
gacagttatg aggaggctcg agatcagtgc tgatttaatg tataaagcac agttggttcg 360  
aggttttgt catttgtacg atggccaaga agcaacagct gttaggcattt aatcagcgat 420  
ta 422

<210> 3157

<211> 432

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F12

<400> 3157

actcgagtgg tggaaaacg ttcgacgcga gattgtcgtg agaaacagaa aggaacctt 60  
tttcacaacc agtaaatagt tacatggata caacatcgat catatattat agcaacttt 120

cctgttac acgacacccc aactttatct ctgtcgctaa gcaactaccg aaagcacgaa 180  
aactgagaac agtaaaagtcc aaccaggtag tacagctatc ctgcgtgttggaaatcgacc 240  
ctttttcca aaaactatct ctaatgaaaa cactagaaga cagttggag aaaatgtgga 300  
gaaatagcaa ggcctcgtcg gagaaaaggt cgatggagta catacagtgt tcagcgtgta 360  
aagcagtata tccagtacag gcaaataatgt ttggggaaaa cgggagatat gtgcgttgta 420  
tagtttgtgg aa 432

<210> 3158  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F2

<400> 3158

agcaacaaca ggacggaagt aaacgcagtg gaagccttgc tttggccaa catgtgcttg 60  
tactccttca atatcttctt ggccttttg atatactggg ttggtaaac cggcggctgg 120  
attcctaccg ttgcagacta tcgcgtgttgc acttctgtgg agaaggatca aactttgtcc 180  
aaaggagcgg agatgcata agaagagtct gcataaagga ctatTTTgt atagttgcc 240  
tcatggacgg tttgtgtgaa aagttgtat tgttagaga gtgtgtttgt gagttgtgt 300  
tggattgtt gtttacgtc tttgtgagtg accactcgta cgagtgtat gaatcctcac 360  
aaagatgata gaagacaata aaacgatgtt gttttggat 400

<210> 3159  
<211> 354  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F3

<400> 3159

acaccgtttt ttgtgggttt cactcgatgtg tttgtcttg taaaactcg aagactattt 60  
atttctgtt atgtttttaga ggtttctta gactctttt ggagttgtca tactccagtc 120  
ttcgtgggttt atgaatggct ctatggcaa agagtagtt tactttccca ccattctcca 180  
cagctccaaac catcaacttt tatacgcacc ttgttatattt gtgcctctag tagctaacta 240

attccgcttg aagagattgc aagtttggtg tactaaacaa gaggtgcaag tgtcagtata 300  
agagagtatg tatgtgtgtg tagtgtgttt ttgggagtag gagtacaccc aagt 354

<210> 3160  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F4

<400> 3160

aggagtaatt ttttgaagag agggccaaga tggtcactc tatggaaatg aagaagaata 60  
agtttataga acagtgggct gcctatagag aaaactctga atatttatac aaatggacac 120  
caaagcgtgt aataggaatc ggttttttg tggcgtgat tccgtattac ttgtatcgct 180  
acattgtgtta cagtgtggaa aatcagtacc caaactatgg agctgcagag tatggttac 240  
tgggagggttc tcctccaaag tactcgagtc aagatgtga aaataagtaa cttgacaacg 300  
tcaccaacga cctaaagtttgc ctctgttggc gtattatatg aaaactttat aaacaagttt 360  
attttttttc taaaaaaaaaaaaaaaaagaa 389

<210> 3161  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F5

<400> 3161

atgttcgtt gtggaaaata aaattttgt gtgtacata aaaaaaaaaaaa aaaaaaaaaaaa 60  
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa caaaaattaa aaaaacaaaa aaaaaaaaaaaa 120  
aaaaaaaaaaa ccaaaaaaaaaaaa aaaaacaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaacaaaa 180  
aaaaaaaaaaa gaaaaaaaaaaa agggggggcc ccccccaagg tttccacctc aacttcccct 240  
tccccggcaac ttcaagcccc cccaaaggtg cccccaatt ccattcccg gcccttctt 300  
ttaaacgttc gaaccggaa acccccgggc gttccccacc taacccctt ggaagcaaac 360  
cccccttcccc caagctggcc tattccccaa gggccccccc ccttcccc 410

<210> 3162  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F6

<400> 3162

agcggacgct tgggttggaa tgccgcagaa aacgatgatg ggatacacct ctccc gagca 60  
agcgctgttg cagtttagcat ccatcaagaa aaccaccaaa aagttaaaga agcacttgca 120  
aaaatacttg gatgaaacaa acactaagaa cacagaagat gcagaaccac tggAACGTGC 180  
aaaggcaaac ctcattttgg catatatatc ggcggccctt ttctacatgc ttcttcgagt 240  
tcacgggtg gaaacttcag gacatcctat catggaagaa ctgcaaagaa tcaaggaacg 300  
ttttcaagtg ctccgaaagt taattggaca agaagatact cgttcactgg ttatagatgg 360  
tgaggcgacg ggttaggattt tagcagccac tctgaaagat ctctcagcgg acaaaa 416

<210> 3163  
<211> 134  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F7

<400> 3163

aaagggggag gtactcgccc cgatggagca ttcttaaaag cagtggaaaa agaattcggc 60  
tcattggacg ctctcatttc gagcctctct gctacagcta tcggcgtgga cggatctgga 120  
tggggatggc tcgt 134

<210> 3164  
<211> 429  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-062-Q1-E1-F9

<400> 3164

ccgatattca tcctcgaagt gatgatggtt gtgggtgagtt taattatcgt atggtttggaa 60  
cgatagcatt cccgaaagaa cgttcttatac gacttcgaat gactatctgg gatgtgtctt 120

catctcctac gggttccgtt cgagacggta ctttatgc agaatgtcaa gtggacttgg . 180  
agccttggtt aaaggaagct catctaactg gtcgtatggc atcaagaaag cctcaatggc 240  
taaggtttc tcatcccaac tatccacaga tgaacgcaca tgccaagctg tctctagatg 300  
tattggatca acacgatgcc aaattctatc cagttgcaaa aggaagacaa gaacccaatc 360  
aatatccata ttacacctccg cctttccgtc ncgtattctt aaatcctctg aatcctatgc 420  
catttgtt 429

<210> 3165  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-062-Q1-E1-G10

<400> 3165

atctccttgc gaggaatttc ttgcggggcc gaagactcgc tttctgttt tgtggtggtt 60  
gtcgctttt gtctctcaag ttttgccga aaatggttca acagtggaga gcagcaggtc 120  
tcacttatct tcgttatgca aatatatgtg cagattttgt tcgcaaggca ctaaaggaac 180  
cgaaaagaac tgaagcattg tcgaggaccg gtttgagat gacgagaagc gagtggagtg 240  
aaggcaaggt tgtgaagaga ggttaagtcca cgaacanaac tactagaacg gtgatttgat 300  
ggagacacct gcagagaccc ttacacaaga gaatgaaaact agtaacgtcg ccaagagtaa 360  
caagtgaatg tgtttgtt aataaacgtc tagaagaacg cgtacgtgtc a 411

<210> 3166  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G12

<400> 3166

ccccacgcgtc cgccccacgcg tccgcccacg cgtccgcccc cgcgtccggg agaagaagag 60  
aggtagact tagaaggcagc aaaccagaga gggaaagcggtt aaagcatgaa agaaaaagaaa 120  
tccgaaaaag aagagaaaaaa ggttaagaaag aagaccgaat caggtaaga ggttagaaagaa 180  
caagaagaga agagagaatg ctgggtggag ttacgaaaca agagaaggaa agtaaaaagg 240

tacgaaagag ggaaaggtaa cgacagaacg aagtacacag aacacagtgt aacgcggcgt 300  
cataatagaa atccgaaaag agtagaaagaa aagagagaga agacagaaaa gaagagaaaa 360  
gccgtactga agaccgacac aggtactcga ggagaaagga gac 403

<210> 3167  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G2

<400> 3167

acgcgtccac ccacgcgtcc gggcggacgt tttttcgtg aagcaaacaa caacaacaac 60  
aacaactatc ggtcgcgcaa tgcttacagt gaaacccat cacaacttgt taaaatgggt 120  
attttcaac atccctgcga gaacgaacta gtttgaaga gtaccaacga aaagatcccg 180  
tttttaacg ctccaatatt tctggaaaac aagacgcaga ttggcaaagt ggaggaaata 240  
tttggtccta ttacagacgt tcactttact gtaaaaccag tggaacgtgt attagccact 300  
tcttttgtg taggagacaa attctacatc ggctcagaga aactgctgcc gcttgacaga 360  
tttcttccca agccacctgg tagtcagacg ggagacaagc cgc 403

<210> 3168  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G5

<400> 3168

acccacgagt caatggacac attatgtgac gactcggtgg tatcggcag cacaccttat 60  
catgtcctac tagacacatt actctacagt catacacatg tcgagtgctg gctgtatctt 120  
tggggggcg ctcactcactg gaagaccgct gtctccagta atgaatggtt tccatcagtt 180  
agacctcactc acgaagacac tatgaactcc ttcagcacac gcatttgcca catgtaacga 240  
actcccgac gtactcacta tttgcagtct cttcctagaa gagcacaaaa acctctttc 300  
ggaaatattc gctgggtgcc gatccccgtt gctctggcgt t 341

<210> 3169  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-062-Q1-E1-G7

<400> 3169

cccacgcgtc cgcttgcttc tggatcagag agcgcttcct taccggcggt tgcaattgat 60  
gagaaaacgag tcgtgtcttc cacgggagct ttatccctta gtcaagttcc taagaggatg 120  
atcgttattt gagggtggcta tattggtctt gaaatgggtt ccgtttggag gagacttggt 180  
tcagagggtca ctgttttggaa atatcttgat cacatagttc ctatgcttga tcgcgaagtt 240  
gcagatcagc tctacaaaatc tcttcaaaaa caaaatctaa agtttaagct cggcacaaaaa 300  
gttggtagggag tggatagcag tggtagcacc ctcaagttga cagcagagcc atcganaggt 360  
ggaaaaacaag aagtccctcga gtgtgatgtt gttcttggtt ctaca 405

<210> 3170  
<211> 427  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-062-Q1-E1-G9

<400> 3170

aagaacctgt agaagaaaaag agagagaaga aagaaaaagaa gagaaaaagcc gtactgaaga 60  
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120  
gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 180  
tttagcaaaa acacagcact ctgcagaaaa gagaaaaatgt aaagtataga gtgtgcggcc 240  
tgccaaatag tagagaagaa atcgatgaaa gtganagcga gtaaaagatg aggtatagaa 300  
atggcggtcc taactgtaag gattcaaagg tagcgaagta natagacgtt tganaggcgt 360  
ccagtatgaa aggagaaaacg agtgttagcac tgtctagtcg tcnaactcag cganacagct 420  
ataactg 427

<210> 3171  
<211> 394

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H1

<400> 3171

ggtgctctga gaaggatgc aatctttca ctggagagt acgtgtcctc aaaacaagca 60  
ggagtttagaa acatatttcg agcgtctaca aagacatgca caacagctt aggcggagct 120  
tgtacgtgtt cgacaagcta tggcccaagt tagttctat cttcgtgatt ttgcgccaggt 180  
ggaggaagcc aaaagtgcga atgattttc aaatgttagc gccgtcacag gagagtctgc 240  
gaaaaatggg tgtctatcaa gaaacacgtc gttctcgctg tttggctt ctactgcaag 300  
gtctgataca acaccacaaa agagtgtcgg cgagaaaagg aggagggtta ataaggatc 360  
gagtggaga tattggtcta gtgaagaaca tgat 394

<210> 3172  
<211> 302  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H10

<400> 3172

aaacttttc caaatataga gaagttttt atgcaagggt tggttatgaa cgtgaaactg 60  
gtcattcgcg tggttttgtt ttctgtatcct atgcataatg ttccctccgtt gacgaatgca 120  
atgcccact gaatggcaag gatatgcata gacgcactat tcgtgtgaac aaggcaatgt 180  
ctcgtgaaca actcgagagt ggaggagact ttctcgccgg tggtcgtgaa cgatacggaa 240  
gttttcgttc cggtccttat gagagacgtg aacgtgactc tgatcgtagg atagatcatg 300  
ac 302

<210> 3173  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H11

<400> 3173

atgaattttc aggtgttggg ggtgcgtatt cccaagagtt gggAACAGAA cagcacttgg 60

agacataaac gttgtaatag aagcaacaca tataggaatc gcttttat tcataatatg 120  
tcagggcttg tttgtcacag agcacttata ttaatagatc acggcagtaa agttccagag 180  
gcaaacgacc aaattgccaa agttgcttct ctagttgcaa agcggcttcc aaatacttt 240  
gttactttg ctcatatgga attagcgaaa cctgattga tggaggctt cactctatgc 300  
gttggaaaata atgcttagaa catcaactgtt tgtccgttt tcttgttcc tgaaaaacat 360  
tgcactgttag atataccgca gatggctcag aactgtgcta gtaagtttag tagagttact 420  
tgtaatgt 428

<210> 3174

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H12

<400> 3174

atttgaggtt tctttcgcc cgtgcgtatgt taagacgggc actctatgaa ctgttaacaa 60  
ggcttatatc ccaaagttct aaagtagcac cttaattt tcgctattcg gttagagagga 120  
aattggAAC ttatTTcct agtttcacc atactttgtc tgtgcagacg agatTTTTC 180  
aacagccaa gagttgctgt ccgagacggt attgttcgtc caactccgga aatgaaagag 240  
gagtcctagt tgattcagac aagtcaagta atccatctgt tgaaaaaagt gaaggaatcc 300  
ctatatttgg cagagaagag tcagatcctt ctcaactggg aagagattat attcgacttg 360  
tgtcgtact tgttcgatg cca 383

<210> 3175

<211> 431

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H9

<400> 3175

agcttgaaa aagctctgtt ggaagatgac cttgatgtt tttgtgactt tcggatcacc 60  
aaaccttgcata gcacacacaagt ctaaagtatt gaataccaga aacaaattac agaggcagtg 120  
tggctcggtc aacacaaagc gtgataaaag gactcaagta ccaaacactt gggttatgac 180

tgaaaactaca ggagtcaagc ttttgaatgg cgaacagaag atggagatga aggcaacgaa 240  
agaagtcaaa gttggagagc gtgttcttt ttgcaggtgt tggaagtcag caaagcatcc 300  
gtattgtgac gtttcgcaca acaaataataa taaggagacc ggagatcatg tggacctat 360  
tgttagtagca gcagtgcagg ctacagaata gttttattgt gttttatttt caataaagg 420  
tagcagtttg t 431

<210> 3176  
<211> 355  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-A11  
  
<400> 3176

gggtcgaggc acgcgtcagc ccaagcgtcc gcccacgcgt ccggtgctga gcgagaggca 60  
aggtgttatac atggcaaagg cagtgagaat tggtgctgaa ggttacaggt taaagttgga 120  
cggtgcagtt caagagatag acggtcgttc ttagtcctg gtagatgtgg atagtattac 180  
ccctctcatg tttggaggtt gatatgaaaga aaaggccaaa ttgttggatg ccaagtttct 240  
aaggagagta ttatgaggag aacaaggact tcttcttctt gtcgactaga gaagagaaga 300  
aaatgtttgt gacgttacaa cttgccaggg aatatgcaga gctggtagat gacca 355

<210> 3177  
<211> 199  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-A12  
  
<400> 3177

cgggtcgccc acgcgtcagc ccacgcgtcc ggaacgatgc gcagtaatgt cgcgattgtt 60  
ttctttggtg gacaaggata aagttgctga tataagagaa caacagaaaa gaataacgga 120  
caagttgtct tccaataaccg caaaagtggta tgagtgtgtg agggactga gccagttgt 180  
tgagggaaacc tgcaagtgac 199

<210> 3178  
<211> 167

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A3

<400> 3178

gaatcggtac aatcaatacc tgcagcgtatc taagagcatc tttcctgcaa tgtgatatca 60  
tggagggtga gaatcccgtt tacctctttt ccttgcaagg cagctgcgtt accatatttc 120  
atgttgtgaa gtctgggtgt ttgggagtagc atccgtaaat ttgttgg 167

<210> 3179  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A5

<400> 3179

agcgacagga gcactcgaca ttggactgaa ctacgaagaa taagactctt tgtacaaaca 60  
caagaaaaaa agatcaactg ttaaagctaa ctgcttgctg ttaccaacca ctcgcgcatt 120  
tgttgtgctt gtttctggaa tatcgaaaat tcttgttctg tgtctacttt ttacttaggt 180  
gtcaccaacg tgcaagcgaaa ctggtaaata gaacacgtgc ccagtcaatc tggcaaaaca 240  
ctcttgcc aaatacagag ggtctggatg agtcaactatc ttctgagaat gtttgaagc 300  
atcttcctt ggaagagaat gtcgtctcgat gttttgtgtg tggaaagaac gtttcagttc 360  
aaagcaactt atcttcaata 380

<210> 3180  
<211> 386  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A6

<400> 3180

agccccacgacg tcggcccaacg cggtccggcc caagtgattt cggaacaaac 60  
cattgaagaa aaagaaacaa cgaaaacagc tggatttgca aaagatctt tggctggaaac 120  
tgcaggagga actgcacaac ttttagtggg acacccgttc gacaccatca aagtaaaact 180  
acagaatcaa ccttgggtcg ctccaggaca gactccacaa tataccggtg caattgatgc 240

agtaagaaaa acggttcaa gacaaggcct tggggtcta tacaaaggaa tggagctcc 300  
actggcttc gttgcagtt tcaacgcagt tctgttgct tctaatggc aaatgaaaag 360  
aatcgccac ggtgaaggta acaact 386

<210> 3181  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-063-Q1-E1-A8  
<400> 3181

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ggTTgCTTg aattgcttac cttggctacc aaaaacagtt cgTTccTatt ctTTTTTgg 120  
ttatacaccc aactcgaaaa ccaaaccatc gaggaacttg gtgacttgTT tgaaaaagga 180  
gcccataac aagaataata acactacgaa taataattat cattctcatt gtaaagagtt 240  
acccaatatt gattccaaaa ctTTatttgag tctaggactt gatatacata ccaagtctat 300  
agggTTTgCC atagtctctg gatggacagg tcaagcaatt cgtcacggta tgatccaact 360  
acaacatatg gaaggagccg atgttttga taaagttgac 400

<210> 3182  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-063-Q1-E1-B1  
<400> 3182

acgcgtacgt taagagacta ctgaaacacc aaagagaatt cgtattactt tgaccagtaa 60  
aaacttgagg gcagttagaag gagtagccaa agaactcgTT caaagagcaa agatgaacgg 120  
cttgagagtt agaggtcccg ttcaatgcc gaggaaaact ctgagaatta ctaccaggaa 180  
atccccTTgt ggagaaggaa ccaatacgtg ggatcgcttc gagctaagaa tatataaaag 240  
agtagtcgtatattgcga cggctgatgt agtgaagcaa gttactgcat atggTTTcgA 300  
ctctgaggtt caaacccgagg ttactattag cgattagata gactgcaaga aaaataaaac 360  
aggcgtctcg tggaattta aaagaaaaaca caaaaaaaaaa ggggggg 406

<210> 3183  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-B10  
  
<400> 3183

cgcgtacgat tacatttcac attctccttg tagaaaacta tgaagtcttt cgaaattgct 60  
attgtttcc taagctttgt tattgcatct tatgcagcag ttgtatccga aatggcatcc 120  
aatgagttc aaagaggagg atacgctcct ttccttcca aggaatgctg catgaccact 180  
tgtcaatatg cagaactttg cccaatttct caaccaactt atagccaagg ctccatctta 240  
cattccatct cctacctatg gccaagctcc ttctacaat caatattctt cttcgtacgg 300  
ttcctcttagc tatcgctct taactgcaga cgaaaaccaa cttgtgagca gaggaggtta 360  
tgcaccaaca agccaatgta ttctagttcc tatccaatgc tgc 403

<210> 3184  
<211> 389  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-063-Q1-E1-B12  
  
<400> 3184

cgggtcgggc acgcgtccgg cgtttctat ggatcgaaa caatatcgag caagtgatag 60  
aactgggtcg tattttgaga atagaaacgc cgactatcga aaccatggac gaaaatatgt 120  
ggcttcttcg acaaataaga agttttccg gcgtcgagtt tattcaccta cttggacac 180  
tacaaggaaa gaaacgaagg acgcttattg ggaacanaca agacaaactg ccagtggcac 240  
ccagcacaaa atataaagac gatagaagtt cgacctatgt aaatagccag gaaagttatt 300  
caaacttggg cacggaggaa aggaaatccc cagcaactac tacagaactt gaacaaactt 360  
catcctgnga cgccctcggt gtgaaagac 389

<210> 3185  
<211> 394  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-063-Q1-E1-B3  
<400> 3185

agcaagcaaa gaagtgacgc agtagatcg agagtaacac atgcaagtag gtaaagcgaa 60  
cgggtgagta aagagggtgtg aaagagtggg agaacatgaa agcaccagag gatgttagaa 120  
atgggtatag ttaaaaacct taaggagtt aaagcgcgga atctcagaag aggaaagcca 180  
cattgtggac tgagaaaaag tgcaaacacg agaagtcacc actggggaaa attgggcaat 240  
gtacagggaa gtatgaccca gtaatgagga gtggagtaaa cagaaaagga agtaaaagga 300  
ggaaatgaag ggaagttatg gcaaaaacac gtgccagcag cagcgtaaa acgtgtgtag 360  
caagcgttga gcagaaaaaa ctgggtgtaa aagt 394

<210> 3186  
<211> 260  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-063-Q1-E1-B4  
<400> 3186

gataatgata ataggaggg a tagtacagt aattgtaaaa ggaaaaggaa aggaaagaaa 60  
gagggaaaggg ataaaatgca aaaatccaa aaaaaaggca cgaaagaaaa gaaaggaaga 120  
cccattaaat aaggcaagaa accataggaa ttaaaccgga taagaaaccc ttttatccaa 180  
gccattaaag aaacaattaa ttataaaaaa aggaattcat tcaacaaggg aattaaaggc 240  
ccacaaacaa accccaaacc 260

<210> 3187  
<211> 369  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-063-Q1-E1-C11  
<400> 3187

cgcgtcaggg gaaaaagang acgaaatgcg agctgcattg agtttggtta tttcccaacg 60  
ggagttgatt ggatcgtttc ctgtatagtc tattcatgtt gatatcttt gcccattgtc 120

attttgcact tgtaaacaga aaaggcattc agacaaggaa atattgctct tcttgcaang 180  
gaacgtattt ctgtagttgg caagcttatac ctggagatga ctggatatct ccatttgcag 240  
tggaagtcag acatacacata ttttaataat catagcaacg gtggtagcag taataatagt 300  
gaaagcccaa tttcagcacc tagaatactt gtattatatg gttcgtaag acaaagttct 360  
ttatcccgta 369

<210> 3188  
<211> 382  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C6

<400> 3188

ggcatttgtgg ttgcaaaggaa gtttgtatag gtgggagtag tgaagataag caacaagaag 60  
aaacatgaca agcactgtac tagttggaa atggacaagt ttgctacgtc caacgttggg 120  
aaaaaaacacg gtaccagtaa caagctggag gaggggtttc gttcccttt ccccaaagga 180  
cttcctgtt ctttgtcca aacctgaggg ctcgttagaa tatgtatgtttt ccaagttgga 240  
cgaccttgc aattgggcta gaagcaattc cctatggcca atgactttt gttggcttg 300  
ttgtgccgtg gaaatgtgc atgcagcagc tcctagatat gacatagacc gcatggggat 360  
agtcttcgt cttcaccta ga 382

<210> 3189  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C9

<400> 3189

gcgtcagccc aagcgtccgg cttggagaa acggatcgat ccctgttttcaagagacaa 60  
tgagcagcac caactccacg acttgttcgc ggtttcaact tttacaagct gctttgaca 120  
aggcggtttc cacgttctta gaaaacggct gttttactc taagtttcc gagttttcc 180  
agccccgttgc ctctgttat ccagaggaat ttgagctgtt gcataaacaa cttccaacaa 240  
ctcttagata taagactaaa gcaagaattt cagttattgc tccaagataa agatattgca 300

actaaactcc	aggtttgcga	ccaactcttc	caaacgtatc	atgtggatag	aaacggttat	360
gtgagaatac	ctttgaa					377
<210>	3190					
<211>	383					
<212>	DNA					
<213>	Cyanidium caldarium					
<223>	Clone ID: LIB190-063-Q1-E1-D1					
<400>	3190					
agcccacgca	tccgggttgcg	aagcggttgc	gttatcgct	atggcggtat	ttgaaaagtga	60
tatagttggt	cctgcaattc	actttacgaa	aaagtataat	tcaaggaggc	gctacaagga	120
gtgcatttcg	tgcttttagt	cttcgggtgg	taaaccaggg	tggttctttt	gacataagcc	180
gaaaattact	cgcaacgggc	tatacgactg	ataagggtat	gaagaccaat	aatggtgctg	240
ttcgagaaag	tgacttttac	gagagagtct	tttcaagaat	agcttcaaag	cgctctgact	300
tttggaaaaga	agtttctgta	accttagtag	tctctaccat	tgacaccgag	tcggataagg	360
ttatttcagt	gtgaaacgca	ttt				383
<210>	3191					
<211>	376					
<212>	DNA					
<213>	Cyanidium caldarium					
<223>	Clone ID: LIB190-063-Q1-E1-D10					
<400>	3191					
cgcgtacgca	gaagcgtggg	agagattgga	agagtcgtcc	tggtaacta	tggcaaagac	60
cgaggcaaac	tgggagtcat	tgtggatgta	gtagatcata	atagggcggt	ggtagatgg	120
ccactcacgg	gacttgcgag	acaaaccatc	aactggaaga	gcttaacggt	gaccccggtc	180
aaagtaaaga	ttcaaacactc	cagtcgtaca	ggagttgtga	gaaaggcatg	tggaagaggc	240
aaaaatcact	gaacaatggc	aaaatacggc	gtggtataag	aaactttgt	cacgaagaaa	300
caaacaaaaa	cttggagact	ttgatagatt	caaagtgtat	attgccaaga	agagaaagtc	360
ggctatgatt	catagt					376

<210> 3192  
<211> 337  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-D11  
  
<400> 3192  
  
caattctcg ttttatctta cttggcaca gattgagttt cgtccaaaga attatgaaga 60  
agctgctcg ttcgtctctt tggtgagcc attgggacct accaatgtgt atctatggca 120  
aacctatgct cagatagaaa gtgctcaagg tcatttggga caagcctatc attactattt 180  
gaaggctctt gagttggatt ccaacaatgt aaagagttt ggaatgtctg gaaaaattgg 240  
tagccaaaaaa ggtaatgtt gatgaatcaa ggagtatttt tataaaagct attgagttgg 300  
tcgaaaaaga tgcccgaaa tatgcattt tggccaa 337  
  
<210> 3193  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-D2  
  
<400> 3193  
  
acggcaacgg aagacacgtt tgtacaactt gcggaaactt taggagatgg gaaaacgccc 60  
caagttatga gaaaaagata ttcacagttt ttgcgggtggg tacagcaatc ttccaaatct 120  
gtccatcgaa acaacaaatg tgagacttga atgttattt aagtttattc tccagagcgc 180  
ttgaatgggtt gtagacgtt tagtataat aataagtcat aactgggttt tcgtccaattt 240  
gttaaggaca tcactaaata cagttccctt aacggcataa caaaagtcgt caaactgaac 300  
gttacagaaaa atcttatggaa agctttccac actgctccat tgtaaagtta tatgtcttga 360  
aaatgaaagg ttataacaaa tatcaaaata aa 392  
  
<210> 3194  
<211> 379  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-D3  
  
<400> 3194

cccacgcgtc cggtcgattg aaagtggaaa aggaattgac tggtcgactg cggaagcctt 60  
ggcaattggc actttattgg cagaaggaac aagtgttcga ctgagtggtc aagatagtga 120  
aagaggaact tttcccaac gtcattcggt ttggatcgat caagaaaatg aagctgttca 180  
tattccttg aacaacttgg gaatgacgca agctcgttc caagtctgca attcgagtct 240  
ttcagaatat ggcgtgatgg gtttgagtt gggatactcc ttggaaagtc ctaatattct 300  
agtgatatgg gaagctcagt ttggagattt tagtaacggt gctcaagtta tcattgatac 360  
cttttagcc gcaggagaa 379

<210> 3195  
<211> 364  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D7  
<400> 3195

agcagacgctc tccgtcaggt cgatcatcag atgtcgagc caatggagat gtcgcttggc 60  
gtgtttcaag ggaccctaaa gtgcgacgca gactgagacg gtgattgcgg tagcacttat 120  
cagttgaact ttaaccagta tggtcaccat tcaagtgac ctttcgacga gagaatgtgt 180  
tctgcacatc gtgttggcc tcgcgtcggg tctcgctca agggagaccc tctaggacag 240  
tcacaaccta tgtgaagaca atgggggtgc gaattgaatg gatacagttg tgacgatagt 300  
tgtcaacgta tgcattccgtg tcagcatact gggagacacg agtgtagaac cgtcgccctca 360  
tcgt 364

<210> 3196  
<211> 399  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D9  
<400> 3196

ggtcggccac gcgtcaggaa aagaagaaag tgctgctcgt aaacaagcac gaattgattc 60  
tggtaagaa actattgttgg gggtaacaa gtatcggtc gagacttcat catcatcttc 120  
caatacagac tcttccagtc agaagtctga acagttggaa atcttggaaa tagatgcaca 180

acgagtagcga gattctcaga tagaaagaat taaaaaagta aagagttagtc gagatgagga 240  
gaaaagtcaa gcgcgtctg atggagctgg aggaagcagg aaaagataaa agcaagaatt 300  
tattggaggc ctcagtaaat gcagctagag ccagatgtac tttaggagag atttgtggtg 360  
cgctggagaa agtatgggaa agacatgttc ccaaagatg 399

<210> 3197  
<211> 375  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E1  
<400> 3197

cccacgcgtc cgccaagaag atggtccaag agatgcacg agcggttgct tctcacgctt 60  
tacgtgcata tgtccctggc aagtttactc gttccgtact aagtatcttg tgcattataa 120  
gtgcaggtgt tattggtgct gtgggagttg tttgtttat attctgttagt atcaatccga 180  
gaaacgttat catcaatgtat tatctcatta tatttgcagt gttgataatc ctcccgagtt 240  
tgggtttcag ttttctgttg aagcggttg cgttttaga tacgttttt ggacctggaa 300  
tattttacat ttctgtgggt ttactggcag tggataacgca ctgggttcag atattggctg 360  
gtgtatttgc tgccg 375

<210> 3198  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E2  
<400> 3198

agccccacgcg tccggtaaaa tatgtcgaac gaaccaaata tttgtgagggc gttggagaca 60  
gctcacaaaaa cgtgcctccg taaagttaaa cgagctcgga acaaggaagc aaagttgaaa 120  
gagtgtcaga gttatattga tatgctgaag gataatagtt gcccttgaa acctgaaaca 180  
agcaagcagg acgctgagaa atagtgaagc taaaatatca agtagaagga aacataactga 240  
ttttaaggaa acgaaggaag tttgcagttt tatttgcgtact agtaacaagt atcaacccgt 300  
ctcgccctg cgcttcacaa gactatttt ttacaacaaa gtaggacgca agacaggat 360

atacagtgtacactaccccttc cctttggag t 391

<210> 3199  
<211> 390  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-E3  
  
<400> 3199  
  
agacattttc cactttatg ggcatttgggt ttgcgaagct ttggcgaagg ctttatcgga 60  
tacaggaact taaaatgtatgt atgatacgctt tgataatgc acgcaagact actataactgt 120  
atcgacttca tttgggagat gtggtaatca caacacccac tataagaagt aatgtagaac 180  
aagtcaagtgcgaaatctt ttatccaatgatggactt gggaggacaa gacagtcttc 240  
gtgaagcttg gcaaacttat tttgtgaata cgcaagccat tattttgtgtt gtggacagtt 300  
gtgatagaga aaggttcgat ttgtctagaa aggagctgtt gagagttta cgaatggaaa 360  
atctatccaa ggctgtgttg ttggttttt 390

<210> 3200  
<211> 130  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-E4  
  
<400> 3200  
  
agacaatgttgc gagctattgc caggcacttg gcaaggaaac atgacaata tggaaagaca 60  
gaagagaaaa aagccttgaa cgatatgctt tatgatatga ccgtcgatata tcacagcata 120  
tacctaaagc 130

<210> 3201  
<211> 180  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-E9  
  
<400> 3201  
  
actgagttatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaagag 60

taagagaagg agtaatgtga atgaaagcac gaaagtattt gaagaagaga gtgtaaagcg 120  
cgtacccccc gcataatgtc ccagcgagtg aaagagtgaa gcacaaagaa agaaaaagaa 180

<210> 3202  
<211> 292  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F1

<400> 3202

ggaagcagac cacacgaact ttggcaatgg catattctgt ttggataaac tggactgggt 60  
ttccaacaga aaattggaaa aggtgcagc tctgccgtga ccgagatgct gcaaaagtaa 120  
tcgttcaca gttggataga ttgacggcag tcatttcggt catccgtcat cctgcaaaat 180  
gcttcgtct aatgtctcac gtgtaaaaaa tgcagtgtta cgaagtgccg atcgcttgta 240  
acttttcct acaaaaattc tctctggaaa attaagtcga gaaatatcaa tt 292

<210> 3203  
<211> 372  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F11

<400> 3203

cacgcgtcag agcagatttc aacggtatcc tggtaagg aggaaatatg gaggttgtca 60  
aggtcggctt tgttagctcag cagcctggg agagctacag taccaatcgt cgtagcttat 120  
tacgtacaaa acgtggcctt ggtcgactc gaaatgttt tatgacagtt acaccagata 180  
ggaaacttgg gacctctggg ccagttccac ataccattgc accctcttgg tgaaaaactt 240  
tcggatgaag agaagaagag agccatgcag gtaaataagc ctgaaggagt tacatttct 300  
gcaaagtatg tggctttga ccaggacgt gattccgaat atgacttgaa tcaagtcgtt 360  
tatccagcaa ag 372

<210> 3204  
<211> 388  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F12

<400> 3204

gcgtaagaga gagaatgccg ccagtctccg cgtttgggt tggcacacct tttgttag 60  
aaactggtta ttgcacttgt ttgcgttgca actcttcaa caacaagtgt agaaatacta 120  
acttgtactc agtgactctg ctcacaaga aatggagtgg tacctattcc cagttccatg 180  
gcaaccagtc cattttcgca caaactcgac tcccttttc tttcattccg catagaaaac 240  
aacgacgata tggacccattt aaaccccattt cgctgtgaag aagaagatta ttatagtgtt 300  
cttggcggtta gtcgtaatgc aggtacccgag gatatcaaga aagccttag aagactcgct 360  
agacgttatac acccagacgt aaagaaaag 388

<210> 3205

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F2

<400> 3205

aggtacttgt cagttggcaa aacaggcttt cgatgatgcc ataacagagt tagatactct 60  
ttcggaaagag agttacaagg actctactct cattatgcag ttgttacgtg ataatcttac 120  
cttgtggact tcagatatgg gcggtaaga agatggaaac gcaacgaaac cagacggaaa 180  
agttgaacca gacccgaaca aaaaggagtg atagataaaa gcatgtgcga tatgtgtgtt 240  
tttggtttcg actcgacat tgctttgca cgataagaac aaagaaaagag agataacttga 300  
atatgcaaga cagatgaat 319

<210> 3206

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F3

<400> 3206

aggggttgtg gaggtggat gaggaatgct taggttgca gtagactata cttttcttgc 60  
cccccatgag ggtaaaagca aactatgatt gaacgccttc gctgtgtgt ttgtgggtt 120

accgatactc ctttgtggag aagtggaccg agaggaccga aaacgccttg caacgcctgt 180  
gggtgcgtt ggaaaaaggaa aagttgtat atagatggaa agcaagcgctc cccaccttca 240  
gacacaatag agaaaactag acaaaagcaa gcaaaggttt acaaaagttac cacctcgctt 300  
caactccaaa gttatgatag tcctcaccaa agttgtgcag tcgaagaacc acaaggctcc 360  
aaatatgagg ctttccaaa at 382

<210> 3207  
<211> 388  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F4  
<400> 3207

agaaagatta aagagtcgcc ctggtcgacc atcaccgcca tttctaggat ttattatggc 60  
tgcaaatgga tatagtttag acaagcaatc cattgaaaga atattacgag aaattgaaga 120  
acaaaatcct tggtcacaaa cagtatcatc agatgaaaat ggtgaggtga aaagcttata 180  
aaaatgttcc acccaaggc tttacgtgaa ggttgatata acaagatgta aataatatct 240  
ttgtgtgata tcaaaccgca aataaggacc gagatcaaaa atcgcttgc acgatacggg 300  
ggagtgcattc aagtaaaagt ctctcatctc agacttcgca aacattatt aaaaggttt 360  
ccttatcaca acttatctcg aaataata 388

<210> 3208  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F7  
<400> 3208

ccacaaggta atagttagtg gaggagatga accttcctt tatatatggg atactcgctc 60  
ggaaagctt gttaacaagt tagatttggta tgcccattgt atcaagtctg ccgaaatatc 120  
gagcacgggt tcttttacca aattaactgc agtaactgga aatagttac aattttggga 180  
cttgaatcaa ttatgttagaa tggacactat gtctatttca caagatgcag aatgtgctag 240  
ctcaagtggaa aatcacgtcg tcgtcggtgg tcgtgacttg caaattcgac tctatgacac 300

aaatacaaaag caagtgtac atactttca tggtcatcat ggcctgttt ggtgtgttcg 360  
tttttctcct ttaagttatg ggttgccctc aagg 394

<210> 3209  
<211> 227  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F8

<400> 3209

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaacaaaaaa accaaaaaaa aaaaaaaaaaag ggaaatcaaa 120  
aaaggggggg ccgcctcga ggtagtc ttttttccc cgtccagcca attttagacc 180  
ccttcattt ggtccctaaa ctccatttc atggcccgcc gctttta 227

<210> 3210  
<211> 326  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F9

<400> 3210

tgtggtaag ttattacca ggagtgcgg ttggatgtt cattataggc tttaatttcc 60  
gagctagcaa catccatgtc gaagaatgaa ttacatttgg ggtatcata acatattata 120  
tgtttgggg ttctggatg ggaccttatg ctgggtact gggatcggtatataatccaa 180  
cttatattcg aactgaatga atggcgctatg ttactttgt ggacatacat tgaaaacttt 240  
aataacaact aatgccttcc caacaataaa agaacaatta atggctcaag aaatttcaat 300  
gggttttaag gaaggttgt taacaa 326

<210> 3211  
<211> 285  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G1

<400> 3211

agttctctt caaaatccag tcacaggact tggccttgca agtatttgga tcgtattgtt 60  
agttctctt agttattcta tagtcgtcg tagagagatg atacaaaagg cagtccaaga 120  
acgttacca gagaaagtat gaagttgcgt attttatTT taggagacac tggagtttgt 180  
aaaactgtaa ggtgaaagaa gattggatg tcttagtaaa ctcatagagt tactaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagag agaag 285

<210> 3212  
<211> 61  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-G11  
  
<400> 3212

aacacagcac tctgcagaaa agagaaaatg taaagtataa agtgtgcggc ctgccaata 60  
g 61

<210> 3213  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-G12  
  
<400> 3213

cgcgtcagcg gtagcgtggg cggacgcgtg ggccggacgcg tgggcggacg cgtggggttg 60  
aatgagtgcc gtcagttgta tgaacgagcg gcttatttga cagattcgg aactgcgaagg 120  
tttcgggtgg aataccattt agaaatgaac agagcgctt atcgacttgc ttatgaacac 180  
tggaaagcac atatggattc gggcaaaagt tgggagcaag ttttcagact ttgtttacaa 240  
acagcgcacc ttttgcaac tacaaagtgc ccaacgataa tatatttata tattacttgt 300  
ttctcgaacg gtatctcgaa tttctccat ttcccattct gctttgcctg tcaacctcaa 360  
cagcagattg tgatacctcc aaccaagttg tg 392

<210> 3214  
<211> 377  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G3  
<400> 3214

agcactgatc cattgtttac caaggaaaca ttcatatacg aaccaaaaaa acgagctgaa 60  
aacgcgttgc atagtctctc tttcttcaa tgtttcttac cgcaaactgc atttggtta 120  
tatttcttct gaaacttggta taacgcaagt tggacaact cttctgcagc gttcgaaaa 180  
catggaacga tgaaagcaaa cttgccctg gttcttgaac gaagtgtgta gtgtaaactg 240  
tgaaactaca gagtattata aaaagaacgg agttcgttag catccataacc aaatatgaat 300  
tcacccgttga tatcgaaaac actccctttc cgtttttttt cttcagcttc ttccggaaagg 360  
gctttcattc gcagttt 377

<210> 3215  
<211> 373  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G5  
<400> 3215

cccacgcgtc cgccccacgcg tccggacaat acctaggaa tatgttgaat tggcaacttg 60  
gcgttatcaa cagtttaatg ttcgaagagg tgcactgttgc aatagggagc aaagcaagga 120  
atcagaacat tccaagttgg agagttactc aggaaagctg ggaggtgaat atttttgttt 180  
gtggtttagt gaaaatgttt ttagtgtcga cacaatagaa gattatcgca agattgcagc 240  
gcatcattat tggcgttaaga agaatggca taacgttaca aaccaaacgg aaaacgcacga 300  
atctagtaaa agtgcgtta ttttggccga gagagaagag aaacaattca cggattcgg 360  
atatagttagt gaaaatgtttt 373

<210> 3216  
<211> 372  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G6  
<400> 3216

ccggctcgac ccacacgtcc gctgagagga ggaaagccac attggaattt agaaaagg 60

caaacaagag aagtcaagcag tgggaaaat tgggcaatgt acaggaaagt atgaccagg 120  
aatgaggagt ggagtaaaca gaaaaggaag taaaaggagg gaatgaaggg aagttatggc 180  
aaaaacacgt gccagcagca gcggtaaaac gtgttagca agcgtagagc agaagaactg 240  
ggtgtaaagg tcgagtagta gagtaagtgt aaaagggaaa ggaaaggaga gaaagaggaa 300  
agggatgaaa tgcagagatc tctagagaaa ggcaagaaag aaaagaaagg aagacacagt 360  
aaatgaggcg ag  
372

<210> 3217  
<211> 369  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-G7  
  
<400> 3217  
  
gaggatctcg taatgaagtg gaggttgata gcgcgttttc atccaatcga cgtcaagacg 60  
tccatcgaga gtttgtaaac acggagagct cccattctcg ctggaaggac aacaataacc 120  
atgaggttgc ggacaattcc attcgagtg cctcaagaag aaacgtaatg atggttgta 180  
gtttagtga gaattcacgt tcgttcccg caccaagtag aattcgaaag tccagattcc 240  
atccatcagc gagacagtgg agtccgaata agaaaccgca tagaaatttgc gatgcattgc 300  
gtgactttcg gaaacagaat ggatggact gacacgcgaa agaaagaatg tcagagaggt 360  
tggcggggtt  
369

<210> 3218  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-063-Q1-E1-H1  
  
<400> 3218  
  
agtgttggtg gtggaaggcg taactttgtg ggtttcctta caagatgtct tttatatttc 60  
gtggaatcaa aggccccc aatcctcggtt atggacaacc cgtggattta cccaccggaa 120  
taatgtatag cttgaagcaa atgtcgata ttgtccagtt tgcttttct gtttagtca 180  
ttgctatgtt ctcccaagtt acctttatc tataccgtga cttaagtgt gcttcgtatg 240

ggcattggga ttacgccacg catagcgaag tgtctggtcc tgtggttat tgccgttact 300  
tcattgctt ggggagcatt tccatcgta ttttagctat tgttgccgt a gctactttt 360  
gaacgctgt a ttttga 376

<210> 3219  
<211> 206  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H10  
<400> 3219

cacgcgtcag acacaattt aagtttgg ggcaagttga gctttgtat tagcacctt 60  
tttgggtt ccctcggt gtttgtctt ttcaaaactc gaagactagt tatttcctag 120  
tatattttag aggcttttc tagagttgc ttttggatt gggaaaaccc gttcctcg 180  
gttgtaaag gtttatca acaaaa 206

<210> 3220  
<211> 318  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H11  
<400> 3220

tcttggaaaga cataactgca agtattgaaa agcctgacat aaaatggata actaggacga 60  
atctcagtagc ttgtctgaat tctgcagaag gaaatgtcac ggttgacttg tcgcggcagt 120  
gtagcttgaa ggatatattt tcattgaagc ttctcgacaa taacttaag ttggcgtgtt 180  
ttaatgatgc cttgtttttt agttttacca ggcttaccc ttgttattac tggtaatcgt 240  
atattctgta gacgctcgga cttgaatgaa acggaagcat tggagtccgt ctttcgttt 300  
atgaagatat gccccacg 318

<210> 3221  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H2

<400> 3221

aggagccaac caccaacaac acgagatgac cgactccacc gctgctagtt ggagaacgag 60  
tacttcacct tcttgttcca ctttcttatac atggaagcgt ctatgggt tgtatcaacg 120  
ctatatattg cctgaatatac agaaaacctct gttgtatact ttcccttagaa tattatttct 180  
ctccttgcgg cgactcgat ggaaagtatac tcctctagac ttgtttcact gggtggacgt 240  
ggaatattat ctacaaaatg aagacggcac tacatttggta tatgtatatt ttcccttggg 300  
caactattcta tggtttattta tcatagtgac tgtatattaca aaggtAACCA accgtttca 360  
gtctcactat tattcttagaa gaacgagttt gatacttggtg tgtgtg 406

<210> 3222

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H8

<400> 3222

ggcgggatcg aaactaacga tcgtggactt ttgcactaca tggtgtggtc catgcaaagt 60  
tggtgctcca aaatatgaag aactcagcga aaaatatcaa caagttgtat tttgaaggt 120  
tattggggac aagaatggag aaaccaacaa aataatgaag tcttcggta tacgagcagt 180  
accaacgttc aagtttatga agggaaagaa aagtattcac gaggttgccg gggcaagaat 240  
cgatgcgttg gaagatggca taaagagcta tatgtatgttta ctttggagc aaatgaataa 300  
gcacctttat ctatcccata tataaaaaaaa ataaaaacaa tttatgaagg gaacaacg 358

<210> 3223

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H9

<400> 3223

acgcgtacga tttagaagga gattcagcgc ttagaaaata tattaaaaaa cgaggaagga 60  
aatatcacag attcgaaacg agccaaattt ttgcgtcgac ttcatatcct aaagtcgttc 120  
ctttcgaatg aaacggagga aacaaattcc taaaagttgc tgtaatgttgc tccagacaca 180

gatattgtca ttcacagtga ataaaagaaca gaaatgcttgcggaaaaaaa aaatccaaaa 240  
aaaaaacaaacttcaaaaactct tgcaaaggat cgaaagagat cactaaattc actcacagaa 300  
tcgataaaaaa aaaaaaaggg gggccgccc aaagggtt 338

<210> 3224  
<211> 331  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A1  
<400> 3224

agcccaagcg tccgccccacg cgtccggaa gaaagaggca aatacggaa agcagtaaaa 60  
gaagaaaagag aaaggaaaaa actgagtatc aggaagaaaa gagggagtag atgaggaaac 120  
aaagatcaag gaagtaagag taagagaagg agtaatgtga atgaaagcag gaaagtattt 180  
gaagaagaga gtgtaaagcg cgtacccttt gcaaaatgtc ccagcgagtg aaagaggaag 240  
caaaaaggaa caaaaagaag tagccagcta agacccgaga cctagtgtatc gtatgctgtc 300  
caagcgaagt aaggctgaac cagtatctgg t 331

<210> 3225  
<211> 348  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A2  
<400> 3225

ccgggccccggg ccacgcgtca ggctagcggt gtgggaggtt tttggaaagt gtccaaaccaa 60  
gtgaatccat ctcgactgca gcgcggaa aggaatgaaa gagtgcaag agcacgttgg 120  
gaactttatg actccaagtt gccaaaggaa cttcgagcac aattaatgcc aagttctgac 180  
aaggaagtac gaagtttgtt ggaaatgaga atacggaaa tgatattgaa cggagacttt 240  
gaaaatttaa aaggcaaagg aaaaccattc aactattctg atgctgcagt gaggtatgtt 300  
gacgttgcta tgaagatgct taaaaacaat gattgaagc caccttgg 348

<210> 3226  
<211> 360

<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-064-Q1-E1-A3  
<400> 3226

caggtgatgg tttaccgggc tcgcccacgc gtccgaaaaa aactgggaga aacgacacgt 60  
tatcggtggc ctcatcgta ggtctttgtg tgaggaatat caacgacagt attcagagct 120  
atgttcacccg aatgaaagca cgaaaagatata gctacttagta aacagattgt ttcaaattcg 180  
ggaggagtcc agacaattgt ct当地ttcaa acaaagagtc gattgtttt tgccgacact 240  
tgaagacagt tggaaatttga taaaagagac gaggggagca catacagaag agaagcttc 300  
cgaggagaat ttgtcggca atagtatgaa gcaagtcgtg actgacacaa tagacttgct 360

<210> 3227  
<211> 362  
<212> DNA  
<213> Cyanidium caldarium  
<223> unsure at all n locations  
<223> Clone ID: LIB190-064-Q1-E1-A4  
<400> 3227

ggtcaggata tccgggccga gccacgcgtc agcccaagcg tccgctcttc aaaaaacagt 60  
ttctgtcctt gtgttgttg ggtaatgtct tccgttcgaa gggctagctc aaataccca 120  
gctactcgta caagctcaag tacttcttcc ggcgctaaca gaaactcagc tgtgggttca 180  
aatggagtg ctggtaatct atcgggttca gcaaagagaa ttcaaaagga gctagcagaa 240  
attagtttag acccccctag taactgctca gccggccaa aaggagataa cttgtatgaa 300  
tgggtcgcta cacttatcgg tccagcaggg tcaccttatac aaggaggtgt cttttcttg 360  
gg  
362

<210> 3228  
<211> 334  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-064-Q1-E1-A6  
<400> 3228

aaggagatag caagggttat gaaaattta gtcagtgtaa agcgttgttgcgactatgtc 60  
gttaaagtgcgactttccggacggatccggaaatagatctcaacaatgtgaagatgtca 120  
atgaaccgtttgtgaaatagctgttagaa gaagcggtac gttaaaaga gtcaaaagtt 180  
gcatacagaatgtttgtgc tactgtggac cttcgcaat cttctgaaca aattcgta 240  
gcgttagcta tgggttgctg accgaggcat acatgtgcaa gtggacaag agttgccgccc 300  
atccatcgtt tcaagagtct gtcaactcct tttt 334

<210> 3229  
<211> 311  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-A7  
  
<400> 3229

caagtattca aataccaagt acaatacagg ttaccattt ctggatgcag tgtgaagaac 60  
gtcagatgttccatagag cagaaattaa tttcggaat tattactata taatcaaagc 120  
tcttacttta cgatgttaggg acaatctgaa agtgctctt agatagaaac ttctctcaga 180  
gtagttgcgg ggacgccttc gtctcggtt accaaaagggtcttttca tgcaacaatt 240  
tcgtttgttc taatatcttg agcttatac accttccat aagtaccttc tccaaaaaaa 300  
aaaaaaaaaca a 311

<210> 3230  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-A9  
  
<400> 3230

gaccacgcgt acgcccacgc gtccgatttacggagtgtatcgataatgc actaaatgag 60  
ttggaaagct gcaaatgtat tgcgttgaa ggtcctgaag aaaatgagga agagatgacg 120  
gatgaagtgc aagtgaagaa ggaagatgca gatactgcaa taggtccatt gaatttgggt 180  
atgattgctgcatttattata tatacgatac acgacagtgg aactgttgc ttcgagccat 240  
aagcgaaaag attcgctga gaggtctcct ggaagtgcta tcttccgcat ccgaatatta 300

tactgttcct atacgtgtag gtgaagatga aatttaaga aagatagcta gtcatgccc 360  
gttgctcct attggaagca g

381

<210> 3231  
<211> 334  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B1

<400> 3231

cacgcgtcag cccaagcgtc cgggtgggt aacggatgaa agaccactgc atgaggataa 60  
ggaatctaac tgagtaagga aaataagctt aagctagttt ggctgggaa gtaaagccta 120  
agaaagagta aattaggcaa gcaaaggcat gagagaagta taatagcaga agcatgctt 180  
aagaaaaaga aagagatttc agaaaggaa gaaaagttag ctatagagaa caggtgaagg 240  
agaactcaaa aagaggagag caccgaacga tcgaagaaga aacgttgggg gtaacagggtt 300  
aatgtggtgt tagagaacgt atcaagcacc acga 334

<210> 3232  
<211> 334  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B2

<400> 3232

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tcttgtctgt ggaaagaaac actttgtcg taccatcata ttcccccagt tattgctgcc 120  
atgcttcgtt ccacataggt gcaagcacga ggaaacttgt gcctaaatct tcctccagtc 180  
tctacgaaat accatcggtt ttaacttaggt ggaccattct ccatcgtcgt catcattgtc 240  
ttcttattcc taccagtggc taccacaata ctgcaacacg atgtggcaag tcgtctcagc 300  
gcaatacaac ggacgatagc ggaaacagca acaa 334

<210> 3233  
<211> 317  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B4  
<400> 3233

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tcggctttc tactcaaaga agacttagtt caaacgcctac catactatga gacgacgaag 120  
cagaacatac aagtgtcggg ttccaccaaa gtttctcccg agtccgccta ataaataaac 180  
tagtacgacg cgtggagatt tggcccttc tcaagcaaga taacagctgt aaaccaatcc 240  
ttttcccagc taacagccta gcaggagatg agcagtttag cgggaaacag agcgatacaa 300  
agtttgctgt catttt 317

<210> 3234  
<211> 325  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B6  
<400> 3234

agcttgttctt tggcggttgcg tcactatgaa aattcggtt tatccacgct ttctcaattg 60  
tctctagtagt ggagtagaat gaacttggag tttccgacag attcagctgc attcatgtt 120  
atgccgtcta tacatttca ggaatcatct gaagaacaag aaggccaag tggaaacga 180  
acaacatttgcgtccatga atggaaacga atcggttgcg aagaattgcc ctacaataag 240  
atttacatttccatgcacgc cacttcgaat ggaccagata ctctattcaa gttacgtgaa 300  
catactaaga atgaaacacctt gcttg 325

<210> 3235  
<211> 332  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B8  
<400> 3235

aacatgaagt tggacttagtt cacgttaatg taactcctat gccgtggatg gtcctggttt 60  
attaggttgt gagattcgatc agttcttatac gtgacttggtt gcaaagctga ctggtgaaat 120  
gtagtttata tatttcaggt gttgcaagga aagattccga ttcgaataact tgatggctt 180

tataatctacg tcaaaaatggt tctagctagg tgggttttg ctgtctgtaa	agcgtgcgag	240
aaaccctgtt cagtaagctc tggttatcaag tctctgggtt cagtcgaata	catagcaaac	300
tctatacgac ttgatagttc gataagagtgcg gt		332
<210>	3236	
<211>	265	
<212>	DNA	
<213>	Cyanidium caldarium	
<223>	Clone ID: LIB190-064-Q1-E1-C1	
<400>	3236	
cacgcgtcag gccaaagcgctc cgccccacgctc tctggccacg cgtccgccc	cgcgtccgccc	60
cacgcgtccg gccacacgctc cgccccacgctc tccgccccaaag cgtcgacc	cacgtccgccc	120
atgttttact ggatgctcga aaatgctcct cgaacggact tatagatgct tatcgatg	gga	180
gctttccgcg gtgtaatgac ttgtataat aaagttgggt tgcttcatt tagtacgata	240	
gacaatcacg gtgtttccat acgtt		265
<210>	3237	
<211>	357	
<212>	DNA	
<213>	Cyanidium caldarium	
<223>	Clone ID: LIB190-064-Q1-E1-C12	
<400>	3237	
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tttctgacaa agaatttgaa atgtggggcg atggagaaca gactcggtca ttttgctata	120	
ttgatgacgc tgtggaaagga gtgattcgct tgatggagtc tgactttgct	gaacctctga	180
atatttgttc agaagaaaatg atatctatga acgaaatatgg caaaaactcat catgtcattt	240	
gaaaacaaaag acctgaaaat caagcatatt ccaggtcctg aaggagttcg tggcagaaac	300	
agcaacaatg agctttgcag gaagggttttggatggaaac ctaaaaatcag ccttgcc	357	
<210>	3238	
<211>	332	
<212>	DNA	
<213>	Cyanidium caldarium	

<223> Clone ID: LIB190-064-Q1-E1-C3

<400> 3238

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cgcagatcta cgagatccgc aacctgatga gagtagagta gaggatcctc attggtagt 120  
ggttattggg atttgtactc atctaggctg tattcctata gccgacgctg gtgactatgg 180  
tggctggttc tgtccttgc acggttctca ctatgacgtt agtggccgca ttcgaaaggg 240  
acctgcgcct tccaacgtgg aaataacctcc gtacaagttt agcgaagatg gaaaaatgat 300  
tattggatag tttgtttgga atgtttcggt gt 332

<210> 3239

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C4

<400> 3239

ccggggccggc ccacgcgtca gcgaagaat caacccttg tttgggttgt cagatgaaga 60  
tttactgctg ttacaaggca gtccaaacctt atctgcttgt cagcaactga gagaaaaact 120  
tgtgagagag tatacatatc tagagaagca tattattcca caaatcccga acctggcccg 180  
tatagacttt agacaatttc agtgggcatt tggtattctt tttctagag ctatggttt 240  
tccttagtacg aagagaattt cattggtacc ttatgcagat ctgctcaatc agagtccctt 300  
ttgttccgcc tttattgatg aagaaagtat tccacttgaa aatgga 346

<210> 3240

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C7

<400> 3240

aaaagaagag tgcaatggtt gaaaagtaga aacagagtac taaggtacct gtagaggcgc 60  
acttgaaaaaa gtggtcacgt ccttttacat gtctacaagt attttttttg cttgtagaga 120  
ttgcaagttt agtgtacttg acaaggtttc caagtatcat tcagtgccct taagcacgtg 180

tgagtgtact tggaacttt caagttgaat aggttagacgt tggacgaa agtatgtaga 240  
aaaattgaag cgttattagg ttaagctaga agaatttacc atacgagaaa agtaaacttg 300  
aaattttct gattaaaaaa  
319

<210> 3241  
<211> 359  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C8  
<400> 3241

aggttgcggt tgacgtgggg tagtgtcaa ccaagagtcc ttggcacaca aactatgtcc 60  
acaacttcat aagtttgtaa agttttagta cttgcaatga gctatctgtt aggaaatacc 120  
gaacaagatt tacaagccaa gaaaccaaca tatgaagaac tggtgccga actatctcaa 180  
ctcaaggcgg atttatttcgc agaaagacac aaaagaaagg tagttgaaca agagttgaaa 240  
gagttgaaac agttgtcggt ttcttaggcag actcatatcg aggcaagaaga ggagtatatt 300  
gcgaataaaac tcataaaaacg gctcagagag ttgagggagg aaaaggaacg ctggcggt 359

<210> 3242  
<211> 323  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D1  
<400> 3242

ggaagaggaa agagatggtg gacaaggcaa tagccactgg acgttcaag gaccgagttt 60  
ttattataac tggcagca ggttagtttg ggagtaactg tgccaatcga ttgcgtcag 120  
aaggtgccaa agtggttatc acggatattt ttgaagaagc aaagcttcaa gaacaagcaa 180  
agaacattga aaagcagttc aacaccaagg cagttgtgt tcgttgtat gtgacaaattt 240  
acactcaagt agagcaggtt gtgaagacgg cacaccaagg ttttggtaga atagattacc 300  
ttttcaacaa cgctggttat caa  
323

<210> 3243  
<211> 360  
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D11

<400> 3243

gacccacgca taaggacaag tagcaaaatg ggcaagtctt gtaaaggctt gtttgatgaa 60  
ttggttcggtt gtctgagtaa ctccgagtgt gtgaagaacc atcctgacaa aaagactgct 120  
ttgaaaagact gtgcaaagag taatggAAC gatgttcgg actattgcaa gggagtaaag 180  
gactcgatt ataaatgtcg tcgagcagcg tttgatata gaaaacgcatttccagagagt 240  
cccagggtagt tagttgacaa agtagttgt taacaaagta gttgtatatt ctcagaagag 300  
ttgcagacat tggacttagga acaagtgtaa gcggctagta aatttttatt cgttatggac 360

<210> 3244

<211> 336

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D3

<400> 3244

cacgcgtcag gtttagatttc ctgccagaca aaatgaacga cgcacaagta aaacaacaag 60  
tacagcagat ggtctcttc attaaacaag aagctgaaga aaaagcagac gaaataagag 120  
tcaaggcaga agaagagttc aacgctcgaa aactgagtca agtagaggcg gctaaaatac 180  
aaattcgctc cgagtacgaa agaaagttt aacaaatcga gtccaaacta aaagtgcgt 240  
attctactga acttaatgcc tcaagactac aaatcctgaa acagagggaa acccttctta 300  
aggagattta tgaagttgtt gaaagagaac tttcca 336

<210> 3245

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D4

<400> 3245

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tgaagtactt ggcagcttat ttttggcta aaatggaaag caaacaaggc agacctactg 120

cagatgatgt gaagaaaata ttgacttccg taggtatcga agtagatgaa ggtcgtctca 180  
cgcaagtcgt ggaagcttg aacggaaaag atttgaacga gttgatcgaa caaggttac 240  
agaaaatgtc tacgggcct tccgggtcca ctgcagctgt tggagcagca gttgggtggag 300  
caactccggc agcacgag 318

<210> 3246  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-D6  
  
<400> 3246

agaatcccc aacgatgctg ttgggtcagg aacctagaca aaccacttcc aacgtggat 60  
acttgaacaa acttccatt caagcgctaa tccacggctt aaatcgacat tattattctc 120  
tggcagtggc ttatcgtaag aacgagctgg aggaacaaat gttgctcaat ttgcataaga 180  
aacactggag cagaggctta aaagtgacag actttgaaga gcgagctgag aaaaatgaaa 240  
aggcagttca gtccatgtt gacttggcaa agagttata tag caaatgttg gaagaagaac 300  
gtcaaatgac aaaggaacag gctgcaattt gaaatgttg gaaag 345

<210> 3247  
<211> 323  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-D7  
  
<400> 3247

agcccacgca tccgcccacg cgtccgcaca gtctgtgaga tggcaacgtt gctgcattct 60  
agtcatggca aggcacaagt tcgacttgcc accgcagatg gaggaccagg tcgatacacc 120  
gaactttcc aagaatttgt ggtccaagtt tctcatgaaa gatgcacgga atcgtcggtt 180  
ctccgcggta acaattctca agtagtcaca aacgatactt agaaaaatata aatttactgg 240  
gtagtgaaac atcacgctt tcactcggtt gaaaaactgg ctatggacat tggttgtatc 300  
ttcatggcac actagacatt tgt 323

<210> 3248

<211> 323  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D8

<400> 3248

gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaaga 60  
agcagcaccg actgttttagc aaaaacacag cactctgcag aaaagagaaaa atgtaaaagta 120  
tacagtgtgc ggcctgccaa atagtagaga agaaatcgat gaaaatgaaa gcgagtaaaa 180  
gatgaggtat agagaatggc ggtcctaacf gtaaggatcc aaaggtagcg aagtaaatag 240  
acgttgaaa ggcgtccagt atgaaaggag aaacgagtgt agcactgtct agtcgtccaa 300  
ctcagcgaaa cagcaataac tgt 323

<210> 3249  
<211> 161  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D9

<400> 3249

cgaccacgc gtaagggcgg tctctgtcga tttgtactct ccttcgctt ttactaaag 60  
gagaccaggc ttaggtcgca ttatacagcc ctgaaacaa ttttgcgt ctcgttagag 120  
acgttctcct ctacaataaa aactctatta ttttgtttt g 161

<210> 3250  
<211> 422  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-E1

<400> 3250

gttatattat tagtctttt gttcgttcta tacttgtaa ggaaccatct tttgtttgt 60  
ttgtcacgga gtttatggaa cgtggcactg tccgagactt gttattatcc aaaagtcgtt 120  
tggaaatggaa tattcgactg aattggcctt tggtactgc gacaggaatg gcatatttac 180  
attcattgga accttgtatt attcatcgag atttgaagac gaccaatctt cttgttagatc 240

gacgcttaa ttagaaata tgtgatttg gtcttcaag gttcatgtct aaagattctg 300  
tgatgagtgc agttggcact gttcaagttg cagctccaga agttgcatt cgttgttat 360  
taattggctt ttgtggata acattgatga aaacaggtat ttacacatga gcgctatact 420  
ga 422

<210> 3251  
<211> 127  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-064-Q1-E1-E2  
<400> 3251

aggctatgcg tccgcccacg cgtcggcgca cgcgctctgc gaacgaatca tcattggcta 60  
ggccagtcat ttgtgtcag ttccatgtgt ctgacatgaa ctctcccaag acagactttc 120  
gtttgag 127

<210> 3252  
<211> 357  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-064-Q1-E1-E3  
<400> 3252

agtgaaagca agccacagtg gaataacgga gggaaacatc aggagtttgtt ggaagaagaa 60  
gaagacaaag aacgaggcat caagtcggaa acgacacatt ttgcacatct gaaacatttt 120  
agtaatttga tttcccgaaa aggaactttt caggatctgc tgaatccggt tcgaaagtat 180  
ctcgcccttgg aggaatccat tcctcttcgt ttattggaaat tgaaggaaca tttgatttt 240  
cgcatcattt ctccagacac tgcattgcgg tttcccacgt accctcatga tcgtctggaa 300  
gttcgagtgg aacgaattcc tagcgaagaa ttgaaagggt gataacaaggg atactgt 357

<210> 3253  
<211> 215  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-064-Q1-E1-E4

<400> 3253

aggccaagca tcagatggct cctccttaca gtcgttgggc ctggacaatc gttcaaaaa 60  
ctgctctgag ttgcctccat ctctcattcc ttatcgctgc cgttagtgca gccgacgtag 120  
tttcagagga gagataggga tatactcagc atcctcagta agagcaacag tgacaactac 180  
tatcttgaca gttaggcatac tatcaaagtc cagtc 215

<210> 3254  
<211> 322  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-E5

<400> 3254

ggataatgag gagagcatcg tgttagcagct ctacacaaac cattacagaa acttcaaggg 60  
ttctcaagtt agaccttacc aagaaaccag aagagaaaagt tcgttggact ccagatacgc 120  
atgacaatga aagagagaac cgccgaaagt ctaaaatatg ctgtatattc cataagcgtc 180  
gaaggcccga cgactcttcg tctagtagtg actcgagtag ttgttagcgat gtggaacaag 240  
acaacaataa taagtcgtta ccggaagaga agtgggctct tatggacaag gaaaaccaac 300  
aaagcttcct atccgaagcc ga 322

<210> 3255  
<211> 315  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F1

<400> 3255

agcccacgcg tccgccccacg cgtccggttg gtgaaaatatg acaggaagag gaaaagggtgg 60  
taaaggctt ggaaaaggag gagccaaacg tcatcctaaa gtacttcgag ataatattca 120  
aggattacg aaacctgcta ttcgacgttt ggcaagacgt ggtggtgtaa agcgtatatc 180  
tggccttatac tatgaggaga caaggaacgt gttgagagtg tttctggaaa gtgttattcg 240  
tgacgcagta acttacacgg agcacgctcg tagagagact gtcactgcaa tggacgtgg 300  
ttatgctttg aaacg 315

<210> 3256  
<211> 358  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-F10  
  
<400> 3256

gaccaacgcg tacggcacga caaagccaag tgaggaaccg aatgcaggta cagggcggcc 60  
cgatagacag ttgtgaaaga gtgggagaac atgagcgcac agaagaatgt acgaaatggt 120  
tagagtaatg gccatagtgg aagtcatagc gggaatctga gaggaagaca gccacgttgg 180  
aactgagaaa aggtccaaac aagagacgtc agcagtgggg aaaattgggc agtggtacag 240  
ggaagtatga cccaatattg aagactggag taaacagtag aggaagtaaa aggagggaat 300  
gaagggaaat tatggcagaa acacgtgcca gcagcagcgg taaaacctgt gtagcaag 358

<210> 3257  
<211> 385  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-F11  
  
<400> 3257

cgtcgcaacc cgtcttagtg ctgcgact tccaaaatga tattatgggt ttcgttcccc 60  
ctgagaagaa ggaagccgtc attaaaggag ctgcgaaact tttgaacttt gcccgtgaga 120  
agaagatccc tgttagttcat gtgggagttac gtttagacc gggacaccct gaagttcga 180  
aacgaaacaa gatgtttct cttgttcct ccagaggccc ccattcctgt ggaaggtact 240  
cctggaaatgt accacgttagc agagttgaaa ccaattgaag gtgaattcag tgttacaaaa 300  
agaagagttg gggcacatta taataccgtt ctacaacca ttcttagcgc tttggcgct 360  
acccacccatgtat tttgggaaat tgttt 385

<210> 3258  
<211> 327  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-F2

<400> 3258

ctcagatact actatccgac cacaggatga cgaagtagtt gcaatgataa aagagttgtt 60  
ggagacaaga attaaggcctg cagttgcaga ggatggagga aatatattgt atagaggatt 120  
tcatccagat acgggtatttgc tcgatttggaa gttgcaaggc tcttgacta cttgttagttc 180  
gagtgttagta acgttgaaaa gcggagtaga gaatatgctt atgcactata ttccagaagt 240  
caagggtgtg agagaagttg taagtgaaga gagagaaagg atggaacgag taagtagaga 300  
gcagctgcaa agtttggAAC aaagact 327

<210> 3259

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F3

<400> 3259

agcccacgcg tccggtaaaa gtgacagcga cgagagttgt gccagtgcgc acaagacgt 60  
gaaaccccttgc accaagagac ttgcttctag aacaaaagtgt atgaagtgtt cgaattgcgg 120  
ttccccatact ttgtttcctg tggacgatga agaagagtgg agcaatggcg cgctgcagga 180  
ttcgacggat agcgatatta gtacttatgc gcctctcaag ttttggaaaga tactgaatag 240  
tggtaaggt cgagatagcg agaaattgtt taggtttaaa cgaactcaag gaaattgtgt 300  
cgaggcact gtccaataag actcgcca 328

<210> 3260

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-064-Q1-E1-F4

<400> 3260

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cgtctgtttc agtggatagt ttttcttggaa gtttctttt atgggtggttt ggtgttttag 120  
tctgagcata agaatagtgc actttatgcg gccaaggaag aagctttat tgctcaagaa 180  
aggaacaaag aaaggcccat gagtgaagaa tactggagag aattgcaaga aataaaacct 240

agaaaatttgg aacagttgta caagatgaag caagaagacg ctgcaaatacg atcagaaaaaa 300  
tatcaaagggt ggaaggaaaa cctacttggt tta 333

<210> 3261  
<211> 324  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-F5  
  
<400> 3261

agcgcatttt tacgcattgt tggttgaaac gatatggcag agaagttgac agagatcaag 60  
gataaaagttg ccgataaaaat aagtgaaatg actggaaaca agtcatctca ggaccaggcg 120  
aaggataaaag ctagcgaggc aggggaccgt atgaaggatg caggaagtgc tatgaaggaa 180  
agtgctcaaa atgcagggga cgccgtcaag gataagatgt ccagcatgaa ggagtctgtt 240  
tccaacaaat cggaagggtgt gaaagaagggt ctgcaaaagt agataactccg aggttatctc 300  
atttgttgcg tcttgtttgt gttt 324

<210> 3262  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-F6  
  
<400> 3262

acgcggacgc gtgggtttgt ggttgctgtt ggtgatcgac acgaaagata ttatcgtgaa 60  
ccaaattcat ttatatatca ttggagaatg actcccaaaa aggaaacacc gcatactccc 120  
aaaggaggct atgcaaaagc tgtacttgat agcattgtt ctctgaagga gaggaatggg 180  
tcctctccac aggccatcat aaaatatgtc aaggctcaca atccgcagct tccggaagac 240  
aaacttaaac ttcaactaaa gtttagcttg cgtcgtttgt taaagcagaa gcttattgag 300  
aaggtgaaag ctctcgataa gattgcttagc aagagtagta gagtt 345

<210> 3263  
<211> 320  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F7  
<400> 3263

gttggttcga cgaccacagt gtgcagttgg cagtcgatata tttcgagta gacagaaccg 60  
tgtgagtatt ttgaccaggc ggaagaggga aaacttgggg aggtatagac acctggggac 120  
aacgactggc tggttgctg acgtgccaaa gaataatgtt ggtagtgaag gagatggttc 180  
agagtctagg gagaatgtat cacaaaaaaag ggatagaagg aaaatagcgt caagtgaaga 240  
agaattggca gctctacaga ctttgcctt agaggcggc ttgagttatt acgaggaaac 300  
tccccatgttt tcggaggaag 320

<210> 3264  
<211> 423  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F8  
<400> 3264

gacccaaacg taagcccacg cgtccgcccc cgcgtccgca tcggaatgct gtcgtatatt 60  
gttggaaact ggttaacag caatacagga agaattggaa tggaaaaaaa acattgcata 120  
gctaaaggta tcctctctct ctctctctct cataggacga gtgatatgag aatatataca 180  
atatatatat ttgttggtag aaatgttcaa cttgatgtt ttccctcgaa tagagaacaa 240  
caaacaaggg gcacaaacaa ggttccatt gcaagatgtg tttgcagtat ttgtctctcg 300  
cgggtgaaat gattagttgt tgcgtttc tttccatag atttgagagt gatgatgtg 360  
attgttacgt gttgttggc ggtgaaggag taataaatgt agctttgtg atttgcattgg 420  
atg 423

<210> 3265  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G10  
<400> 3265

gacccacgacg tacgcccacg cgtccggaa aagtcgacgt gaagtggagg aaattttgtg 60

ttaatggaa tctgatggaa tagagccgga tagagttact tataacacct tgataaaaggc 120  
atatggctac atgcgtcgac atgatctcgc agaagctacc tttaagcaac agatttccaa 180  
gtttggaccg cagttggttg gctttaatac cctaatgaat ggatactgtg aagactaaaa 240  
agtttgctcg tgtcttggaa ctatggcgc aactcaagga attggggttg aaaccagatg 300  
ttaaaaacgta ttctactatt atcaatggac aaatattgtc tggtgagaat tcatactacag 360  
tcatgtgttg gtatcgacag atga 384

<210> 3266  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G12

<400> 3266

gaccacgcg tacgcggacg cgtgggtcca cataatgata tgaccacctt agaaaagttg 60  
ctggcagaaa cagttcgaa tgatcccatt tcgggtaaag tgacacaaag gagatttac 120  
atcgtggaag gaatatcaag caagttgcg gatgtgacac ctttgataa agttgtggaa 180  
ttgaagaatc agtaacgttt tcgattgaat gtggcacaaa gttattcggtt gggtggtcac 240  
aaggaaaaaca ggtcgtggaa ccttagaaca ttttgattt ggaaacaaag atgcagat 300  
tgttttggca gatctggaa atgctattgc aactgtgggt ggattctgct gtagtagtga 360  
agaagtagcc aatcatcaac 380

<210> 3267  
<211> 362  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-01-E1-G3

<400> 3267

agcccacgca tccgcgagga gagagagaga gacagacaga tggccaacgc tggtcaagat 60  
ggccttgtgc aagtcaacaa acatagaaaa gtAAACAGAT tgcaagaaga taatattttg 120  
aatagagcac tATCACAACC aggaggtaaa gtacagaaaa ctatccagtt atccattcat 180  
agagtctatt agatgtattt ctgtgctttt gcaacatcca gttgttggtg aatgcagaaa 240

gagctattat aggaaatatg tacgtgtcca gaaagtatcg aagtgtgtcg tctattagct 300  
ggacatatacg cagtttgggtt cgatgaacat ttgggtgact ttcggttggg agcgatctt 360  
gg 362

<210> 3268  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-G4  
  
<400> 3268

ccacgcgtca gcccacgcgt ccgagtgaaa ggacgcacgc catgtcgagg agcaatacgt 60  
tgcaacaact agtcgacttt tgtacacgc atactttgggt ggataagaac aaccaaacag 120  
gaaccttgtat ctggaacgaa ttatctaaat gtgatatatt atccagggaa gatcctcttt 180  
ttggttccgt ggactcacgc gcagtagt actgggttga acaagcttgg aaccaagaca 240  
agagtcaact tttagaatct gtcaacaaac acttgtctaa taagacttag ttggttggag 300  
aacgacttac tattgccgat atagcagtgt acactggcct ctattccact gtccaacaaa 360  
tgttgtc 367

<210> 3269  
<211> 316  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-G5  
  
<400> 3269

aacatgagga agaaagacgc aaatacggga aagcagtaaa agaagaaaaga gaaaggaaaa 60  
aactgagttat cacgaagaaa agagggagtc gatgacgaaa gaaagatcaa ggaagtaaga 120  
gtacgagaag gagtactgtg aatgaaagca ggaaagtatt tgaagaagag agtgtaaagc 180  
gcgtacccttg tgccacaatgt cccagcgagt gaaagacgaa gcaaacacagac agaataagaa 240  
gtagccaggt aagacccgaa gctagttgat cttatgccgt ccaagcgaag taacgctgaa 300  
ccagtatctg tggaaa 316

<210> 3270  
<211> 379  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-064-Q1-E1-G9

<400> 3270

cccacgcgtc cgagaatttt ggggtttagg aacagtgc aa gttggatgg a aacgcctaa 60  
ctgttagttca cgattgatac tgctgtttt tttggtcttt ataacgacta taactttgg 120  
aaatgc aaaa c gaaactatt ataaagtgc gggcgtggaa aagaacgctt ccgagagtat 180  
gtggtttagc gttcattctc caagtttctt tgactttgn ttaggagaaa ttaagcgcgc 240  
gtaccatcaa ctagcaagga agtatacacc g gacaagaac ggcggtgaca agaaggcgga 300  
actgaaattt cgagaaatag ctgaagcata tgaagtccta tcagacccac aaaaaagaga 360  
aacgtacgac ttgtatggc 379

<210> 3271  
<211> 328  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H1

<400> 3271

agcccacgcg tccgttttc gtcagagatg gacgcccgtt ccacaaagga g gaaagaacg 60  
tgcggtatac atataaagtg ggagcaagtg tttgacccag ggaccatgaa aattgacgga 120  
aaattcgcca acgtttggtt ggaaggttt cccaatctct tcgctgagtg ttgcagaatt 180  
gaagttcgg agctccttgg agaaagagtc aaggtcgaa acgaagaatt ttttacatgg 240  
gccgaatcac tgagggccgc ctcttcaatt ttgtatccca agaattttgc tgaagacttt 300  
cctttgaagc gttccggcaa tgaaattt 328

<210> 3272  
<211> 349  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H11

<400> 3272

agacagaagt tttgggagaa aggtattatg gaaagggtgt aaaaagctaa gatattagaa 60  
caaacgaaat ttttgcactg aaaaagaccc ttttggtaaa cgaagacgaa cgctcccc 120  
caactactct gagagaagtt tctatcttaa gagcactttc agattgtccc taaaatcgta 180  
aaactatctg acgttcttca cactgcatcc agaaatggta aacctgtatt gtacttggta 240  
cttgaatact tgggacacga tctcaaggcac tatatgattt cgaagaacgg cagaggagta 300  
tgactcgata agaaacaagc tctggtgtgt ttgctgaaaa taaattttc 349

<210> 3273  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H12

<400> 3273

gaccacgcgt acggacgaag aggatgaaga cgaagacgaa gacgagcagg atgaagatga 60  
ggaggaggaa gacgatgagg aagaagaaga tttacccag tctaagagaa agcgatctaa 120  
agactcaaaa aaggaagtgt ccaaagcatc agcaaaaggt catggaggcg gaggtcttcg 180  
tgctgcagcc aacaaaagac gtcgttctgg tgaagagtgc agtgtatgtatgtatgtatgt 240  
aatgagcgaa tccttgaag acactcgact gtctgattaa agggcacacc gcaatcttac 300  
aaaagttgtg taaggaaaaa gagcagtgcg gccaatatga atttgtttc agcttcttt 360  
atatataaaa gcattggctc gca 383

<210> 3274  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H2

<400> 3274

agcccacgcg tccgctagtc tccccggata gttgtgaata ttccattgga ctggcatttt 60  
tccgtttga agcttgattt agttgcgtcg ctttggttgc cactttgttag taaataaaga 120  
aaagactcag gagatatctt tgataaaagta tggggAACAG ttcctcttct agtgcgtggg 180

accttgcata gaatggcaca ctgggaccat attacatgaa ccacagtgtt cccaggagtg 240  
accgtttgct ctatatgacg aatatgtttt cgcgctttc aagtaataga agaccgcga 300  
acagcagggc cagaaggcaga catagtactg aagaaccagg gataattcca actcaatttt 360  
atctggatga gagcacgttt ctaaacttga tacagaatag aatagttgc 409

<210> 3275  
<211> 348  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-H4  
  
<400> 3275

cggctcgccc cacgcgtcag cccacgcgtc cgaaaacaaa cctcccaaag tcagagaaac 60  
cagtagtgcgatg atttgaagcc ttgaaagaga gaagacgacg atgatccaac 120  
tttatcagaa ataggtcaaa agaatttgca gcagcagcaa cagaatgctg taaataat 180  
gaataataga aaggataaca agaacaagac agtagatatg accaaagagt ttttaggga 240  
gcctccaaga cgtggaagag gagaaatag tcgcgttatt gggggaaata ggagaagagg 300  
aagaggaaaa accggtcctc caaatacttc caataataac tatcgacg 348

<210> 3276  
<211> 139  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-H6  
  
<400> 3276

atattctatt ggactggcat ttttctgttt tgaagcttga ttaattgcg tcgctttgtc 60  
tcgcactttg tagtagatac cgaggcgagc cacgagtata tctttgagaa agtatggga 120  
acagttcctc ttctactgc 139

<210> 3277  
<211> 398  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-064-Q1-E1-H9

<400> 3277

gacccacgcg taagaaaaaaaa ttgcgtgtc ttactccgta cctgcaagaa acttaccggc 60  
tttggcacgt aactttcca atgtctgtct ctcgaggagt ggtctgagag .ggggatgtt 120  
acgaaatgtg aaagtttca accacaaacg acctgcaagg ttgttatcta cgaaaatgag 180  
aggaggcgac catgaaagga gagaacttag tcgtcctatg cgtacgctt atttaccgct 240  
ttcgacgaac ttttagctt tgccgaggat ccctggtcca tgttcgctc tccatggagt 300  
ctgtcgcccga aagtatggc agtagacacg tggatgcctc gtgttactt ggtggagaag 360  
gaagatggct tttatgcata cgtgaaacta ccaggact 398

<210> 3278

<211> 269

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A1

<400> 3278

gcgtccgccc acgcgtccgc ccacgcgtcc gcgaagaaag aaacggatga cgtggacagc 60  
gatagtgaca tagactcgga gtggagtgac ttggaagata atgagaccag ttgtcccgag 120  
caagttggtg cggttgctgg ttcttcgtc gtaaaaagcg gcattttgt gtagagagt 180  
tgtacagagg tttcataccca gccgtgttca attgtggtgt gttggtgtac ataaccatct 240  
acgtttggg gctgtgttgg gcctacttt 269

<210> 3279

<211> 378

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A10

<400> 3279

agcccaagcg tccgcggacg cgtggcaca acttggggcg atgacaacaa cgagcaacaa 60  
cgctttgtca tcttcttctt cctccaaaga aacgcataatc cttgtagaaa caaatccttc 120  
tcaaacagag tggagaatat ggaaagctca aaagaaaactc ctagtagcct ccattcttg 180  
tgcgttgggg atgtttgtc aaatattggg aggatacttgc cccgggttctt tagctattat 240

gacggatgct gcacatttac tttccgactt tgcaagttt gttatatctc tggttgcctt 300  
acaccttgcg aaacgtcctg gaagtactac tatgagcttt ggtagtc gagctgaagt 360  
tattggtgca tttgtgag 378

<210> 3280  
<211> 313  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A11

<400> 3280

gcacgcgtca gcccaagcgt ccgcggacgc gtgggttgg ttgtttctt ggttagcagg 60  
gtacattcaa catcatcaa tgccaaaggg agaaaagaaa gattttcaa agaaaagaagc 120  
cacaagtaaa cctgcagcag cagatgctac aaagacgaca gaaaagtctg gtccggaagc 180  
caagttgaag ggaactggtg caaagaaaaca ataaaaaagt gactatgcat gttcctgtta 240  
tgtttgtga gttctgtttg atagttcca gctattctt tggttagtcaa taaagagaaa 300  
atttttata ttt 313

<210> 3281  
<211> 370  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A12

<400> 3281

agcggacgacg tggcggacg cgtggcgac aaagtaattc tgagatgaat gatgatgttt 60  
accattttaa tgaagaagaa gaagatgaac aagctgaaag agctagaagt agtcttcgac 120  
gttcttctca acctattgac gattctgaca attttaactc gtcggaagat attattccag 180  
aagatgatcc acgtatgaca gatgaaattg gtgaagaaag ggatcgaatg tttgatgatg 240  
ccgacaaaaga aaatactctt ctttctaattg acatgatgaa tcttgcataag gacgcaattt 300  
acaaggcaac ttccagaaaag atgagtgaaac aatgttccct tcgagaagtt atgaatgtgt 360  
tggacaaaaca 370

<210> 3282

<211> 111  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A3

<400> 3282

ctcagtcttc cgttgttaac acagagccac ggtgatgtca aggggacaaa agacagtctc 60  
tcaaaggacg atcatctacg agaaacccga cttactccaa catcgatcat t 111

<210> 3283  
<211> 324  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A4

<400> 3283

agcccacgcg tccgtttttt ctcttacaaa tgtggaggag gatgacgact gtgagcactc 60  
gtgtcatcaa gtacaactgg aaagccctgt cttgtattgg aaagcagcaa caacaaccaa 120  
cacaaggcctt ttcttagtgtg caaaaatttc aggaagagt gttaaagttt ctagtatgtc 180  
ctgtttccaa acaaactttg tactatgact cggaacgcga tgaattattc aaccaatcga 240  
taagatatacc agtaagtaca agtcatataa aatgctttat tttctatcat tgaaaaacaa 300  
gtatctccctc ctgtaaagcaa acaa 324

<210> 3284  
<211> 417  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-A6

<400> 3284

gctaagaatc ttgaagaatg gaacgaaata aaaatcatc agactcgagt tttcaccatg 60  
aaagaacaga aacaactgaa gagtcgacgt cagtcggac ggaacctgt atggagagt 120  
tgcagcaact tcttcagtg acacttgaaa gaagccattt ggacataagg aagcttcaac 180  
aagcagcgaa cgatttcgt ttatgcgaa agacgtttaa aatatgtgat gtgaagttgg 240  
aacaaagttt tctaaaaag tcaagtgatt agacaccctc atggtttcc attgaaataa 300

ctgggtgctc ttccttgggg caacctatTTT attacgaaaaa ttTCgtgcac cttctttac 360  
aatatgaggg ttccttctgg atatggtgag ttttcatTTGAG nagttttgtt ggggcc 417

<210> 3285  
<211> 213  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-A7  
  
<400> 3285

ataaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaagaaaaaa aaaaggaaga aaaacaaaaaa 60  
agataaaaaga ttaaataaac gtgaaagcac agctaaaaac tcggggaggg tgcccttgaa 120  
ggttcaattc attggtccgt cgcttacaa ggtcgccccct gttcaaaggc ggccgttact 180  
taccttcac ggccgggcgt ttacccccc ttc 213

<210> 3286  
<211> 391  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-A9  
  
<400> 3286

agcactcatt tgtgtgcagt tcgaagtgtg gcaaatgagc tctcccaaga cagacgttaa 60  
taagagcagt gacgaaggag tgaatttggg tccacttgca gtaacaagtg gccacgaaac 120  
gagagatttgg aagggacta cgtctgcaag ggccccaaatg aagagagaaaa 180  
tcttgttctt ttaaagagga agctaagaaa cagagcgtct gctgttcgtt ccagaaaaacg 240  
ccgcttgaa ataattgaga .cgttgtacaa tcaagtgtatc gaactatctc acttggcttc 300  
acgactggag gagcgacttc gagtgtaga gagacatgga cttaactt tgcaagacag 360  
ttgcgtgaac ctatcgaata agaaaaactt a 391

<210> 3287  
<211> 386  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-B1

<400> 3287

atcaaactac attgcgatgt gggatgcgtt ttcaataaat gttgaggaat tactatccga 60  
aatttggtag ctcccttcaa tatatcatca caccctattc ctcgacaact ccaacataag 120  
cttctacaag tcacaaaaag gttcttcca cgggtgcaga agaattcggc ttctgtaagt 180  
gcaagggtgc ttatttccat ggatataaaa gataaataac ttatgcaa at aacgccctac 240  
tatttacaa gactgaaaat cgtggtagcg ggtatcgact gactaaggtt tgatacacga 300  
ctattggct tgcgtaacgt ttgctgagct tcacaaaaat cgactagttc catactactg 360  
tctggtactt ttgtgcttct ccaaac 386

<210> 3288

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B11

<400> 3288

acgcgtcagc ccaagcgtcc gcccacgcgt ccgcagaaga gaagcttcc gaggagaatt 60  
ttgtctgcaa tagtatgaag caagtcgtga ctgacacaat agacttgcta gaaagagtag 120  
agcagagatg catagaatgg gacaaaaaga cagaaaagct ttcaggagga gtgaaacaag 180  
aatatttgtc gttttggcg cctttgtgt atcagcgttt tctcggtgt ttgtttactt 240  
ggaacgctct gttgattgaa tggtttcatt ctaatttctt tgtatcgaa accattcgag 300  
ggtttggta actgactgtt ggtgcccctg ttttagctct tgccgctagt cttcgttt 360  
cgcattatta tcgacgcana agtatgccga ttttgcaaa 400

<210> 3289

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B4

<400> 3289

gtggaaagat tctgtcggt atccaatgtg gagagcaagg gctgtgtgt ttattccaga 60

aaacattccc agactctgaa attcgcat ttccaaagtaa agccctgtcc atgactgcgg 120  
tctttctctt tctctcttt tcgagagatg ttgcagaaat actccaactg aaatgtttc 180  
aaaggcggtg catgtttca ccaacgtttt cccatttgg a gcttccaagc ccgcatttc 240  
ttctacgcac cctttctta cccattttg tgtctttac tcaccaaggc atggcgggtt 300  
tagaagactt ttatgaccgg acttgtggtg cagaatatca naatatagtg ccagaaaaaa 360  
aggaacctgt agaaaacaaa ccagattcta ctgcgaaa 397

<210> 3290  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-B6

<400> 3290

ccccacgcgtc cgcccacgcg tccggcctgg ttgaagagta ttactcgatt acctattctt 60  
gtgaaaggag ttgttactag agcggatgca gaaattgcag ttcgtaatgg agtagctgg 120  
attattgtga gcaatcatgg agcaagacag ttggatactt ctcttgccac tattgattgt 180  
ttggaagaag tagttgcagg tgcacaaggc aaagttcctg tgttttaga ctctggagta 240  
cgtcgtggta cagatatagt gaaaagtttgcacttggcgtcaagctgt acaaattgg 300  
cgtgggtct tgggggtttt agcagttggt gggaaagaac gtgtggatct agtggtaag 360  
ttgcttcgtg atgagtctga gttggactg ggaacttgg 401

<210> 3291  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-B8

<400> 3291

cggacgcgtc cgcccacgcg tccggccacg cgtccgcgg a cgcgtggca ataactgacg 60  
aaaagaagaa tggatgtttt gttggagaagg agcgactgac tgctgacgaa agaatattag 120  
acattgtgcg tgacttagaa aacattatgg aaagtgttag tcaattgtat ccagaaaaatc 180

ctaagaaaaa tattctcctg gttggcactc caggaacagg aaagacaact cttgcaaaga 240  
gaattgctgc tgtcaacttcc ttgacacact tggaagttgg aaagtttgct gaagagcaca 300  
actgtttggg ctgttacgac gagcagttag attgcttcga aatagaggag gagaaactta 360  
ttccttgct ggtaaacgct ctganacctg gaggcttct tgtggagtat catgga 416

<210> 3292  
<211> 190  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-C1  
  
<400> 3292

ctgcatcaga caccgagcgg tttgggtgt ttttgtgga gacaacacac ttgacataac 60  
actgtataat aatgtatgtg ttttagcag tcagcgtgtt gataacgatc aactattctt 120  
tgcataatgtt tcaacatgtg ctgaaaatg ccgtaattaa gatcacccga tcaacgaacc 180  
cccctatggc 190

<210> 3293  
<211> 410  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-C10  
  
<400> 3293

ggtcaggaat aacgggtcg ccacgcgtca gcggacgcgt gggcgagaac gatgcttatac 60  
ttatggtaga tatggcacat attcagggtt tagttgcagc aaaacaagtt ttatgccgt 120  
tttcttatgc ggatgtggtt acaacgacaa cacataagag ttacgtgga ccaagagcag 180  
gtatgatatt ctatgcacgt caatgtctt cacaagttag acgaggagaa gattggagt 240  
cgttgattaa ttctgcagta cttcctgctt tacaaggagg acctcataat catcagattg 300  
cagcaacttgc agttcaactt gcacaagtaa atacacctga attcagagaa tatgcgaaac 360  
agatcatatt aaatgccaca gcttggcga agtacttgag ttcgttgggt 410

<210> 3294  
<211> 380  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-065-Q1-E1-C11  
<400> 3294

agccccacgcg tccgagcata tgaactgggt tgcaatttat ttgataacgc tgaaacttat 60  
gcagctggag cagcagagtc tatcatgggg gaggctttc atcgaggtgt aaaggaggc 120  
gtatggacaa gagaagactt ggtgttgact acgaaaatat tcttcggcgg aagaggttca 180  
cgggactgca agcctcggt aagcgtatgc agttggatca tgttagatgtt gtgtttgcc 240  
atcgcccaga tccacttacg cccatcgaag aaacagttcg tgcaatgaat cacgttattg 300  
accgagggta tgcttttac tggggacta gtgagtggtc tgcacaagaa attacagaag 360  
cttgcgagt tgccgatgtc 380

<210> 3295  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C6  
<400> 3295

agtttggacg aattattgcg caatcgatac gctccaaatg tcacgagggt ttgggctgta 60  
ctcaattatg acgaggtcca ggtaactcac tcatctgacg gagtccctag agatatcata 120  
gaaagtgaaa tagtacgtat tccagccgct caaaggcctg cagatcttt ctttttgaga 180  
gaaaattcgt tggcaagtt ttggcatcgt gagttgatgt ctcaagttat tcacatgca 240  
cagaaaacgtc gtcgcctcat catggccgag catacgaaag ataccgcgaa acaaccattt 300  
tgctcggtta tggtagtagtt ttgctttgtt ttgtgttagta gttagttgtt tttcagcgg 360  
aagggcacgt ttcttctca ttatggacat gagaacatag atgttttgt 409

<210> 3296  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C8  
<400> 3296

cccacgcgtc cgcccacgca tccgagtaag tgcgcttggc agcaaactaa aagatggcaa 60  
gaagaatcat cggagcttat atgtctgacg ctactgtacg gtctctattt agcgtaaaaa 120  
tgttgttcta ctttacaata cttgogttct ctatcactat tgtgggtctt atgggttaaga 180  
gttccgacgg tatttgggtt cacagtgttc cagcgaaaga cgaatattgt gcataacaagt 240  
cttcccttca agtaaaccac cacggcatag cttcctattt caagtatatac atggctgttag 300  
cagctattgg tttggttatc agcttcttcg agttttggta tgcattcctc ggaattttct 360  
tcaagtggca acaaagttt tggtatattt aatctgctat caacgtgtt t 411

<210> 3297

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D12

<400> 3297

agcggacgca tgggtctcga agcaaaaagc cttaattgc ttctctttc tcgaggtaa 60  
tatacagttt ttgagtaaat ttaccgttgt gtcttatgtat ttccacatta cgctgttagtt 120  
ttattaaagt tattgtcaag agattatgaa gctcaatgac gaaaaaaaaa atagttgtt 180  
gacacgtttt ctccgagcga attttttttt gagtgaggat tacaagttga agtagttgt 240  
gttgcctcaa gctttgcgc gttcttggt atagaaaaac cgtccattct tatcttgg 300  
cctagaaaaa ggttcacagc gttgtgagta tcatttcaa gcgacgcatt gtttttgg 360  
aaccaaaagt tattt 375

<210> 3298

<211> 289

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D5

<400> 3298

acgcaacgcg tccgcccacg cgtccgatta cgtggacgtg gcagcaacat attttacggc 60  
aatatgaatc aactaagcca agtggtctca cacgttagta ccgtgcagaa gaaacccaag 120  
aaatatcata caacacatgg atgatcttc caacctgacg aaaatggtgg atgtcatagc 180

taatgtatgg ccaatcagct atttcgagtt acacctaagt tctggacgca tcaatgacaa 240  
tgctcaatgt cgcatattag attcctggaa ttaggcatac cttctaatt 289

<210> 3299  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-065-Q1-E1-D6  
<400> 3299

aggggcaacc aactaccacc aaaagtagca actgcaagga agaacagagt gtcctaaaga 60  
atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg gcaatgaagt 120  
aaaacttcgg gatgttgttt ctctctaag ggagacgagt aaagcgacgg ggtcttccat 180  
ccggagttgg ctccgtata tcaaccagtg gtatgaagac acttactata aaaaggaaaa 240  
ggtgatcct ttgttacatt atatgttact ttgtttggg gtggatata ccatcaatta 300  
ctccccatatac aaacataaaag tggagcataa gaatgacgat atcgaaagct tgtaaacgtc 360  
acctttgttg tgggtttgtt gat 383

<210> 3300  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-065-Q1-E1-D7  
<400> 3300

agcatgttcc ct当地tccagctg agtgtactgc attccataga gcaactccac tttgcaaatg 60  
cttcgagtcg tc当地tcttccg tttcagactt tgcatcgtc cc当地tccctgtt gcaatcttc 120  
gc当地accatc gataatatac aatccgggt tc当地ttctct aactttcca acttctttc 180  
caccttcttc tt当地aatcca agttactcac tt当地cggtata aggagactct aaaaaacgag 240  
attagatatg aacgacgaac gataaccatc acttacgaca tt当地tcttc tt当地tcttc 300  
aaattccttg atttcttctt ggaaaatctc gttttgtct ttagtcactt tc当地tactat 360  
ttcctcaggg tc当地acaaact tt当地gtaaaac taag 394

<210> 3301

<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-D8

<400> 3301

gaaagtactt tggtaagaga ttgcaatagg tcttgcgacc agataagtaa gcgtgtgtc 60  
atgagtgaaa agacatccga gcacgaagag aatgttagtta aataggatag gactcgaaat 120  
cacagtgtaa cgagagtann aggacgcaga gatctagaaa gagagaatgc ctgaggtgt 180  
agtactcgag aacaagggtcc agggaagtag aaggtaacaa tgaggaaaag tttacaatat 240  
aaaggatat atggaacaga gtgtaaggct gcgtcatact agaaatccga taggagtaga 300  
gaatgagaga aagttgtggg aaaagaacat aacagcagta ctgaggaccg actcaggtac 360  
t 361

<210> 3302  
<211> 197  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D9

<400> 3302

cacgcgtcag cccacgcgtc cgccggacgcg tgggctcatg ggaagggttc atggcacctt 60  
caatttggtg gtttggaaat aactacgaaa tagtattcag cgcaagttt tacgatacaa 120  
gaataaacat tatgtgttat actaaaaaaa aaaaaaaaaa aaaaaaaagaa aaaaaaaaaa 180  
tgacgataac acaaaaaa 197

<210> 3303  
<211> 355  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-E12

<400> 3303

aggtaaaca tgtggaaaag agcaactgtc ccaacactag gaagaatata ttaccctaag 60

cggttggtag aaactttgc caagaaagaa acaaccaagt tgccagttgt tcacaacttt 120  
gtgggaggaa aatttgtggc aagtcagggc cctattagcc agacagtgac caatcctgcc 180  
actggagaaa gccttcaaag cgtaccctcc actaccaaac aagaagtgga ccatgttagtg 240  
caagtagccc aagaagcgtt tgaaagctgg tccaaaatgc ctatggaaag gcgttgaat 300  
tacattttc agttgcata gggagtcang aaaagatccg cgaaattgc ccaag 355

<210> 3304  
<211> 419  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E6

<400> 3304

ggagaaaaag acgaagactg ttgggtggctc gatgagtaca acatttcttt gtccattcct 60  
acccaaactc aactattgga aaccactttg taataaaagt aagtatggga gaatgacagt 120  
ggacaaggaa aggaaagaac ctaccccttc ctacccagca gagtggaaac agcatcgat 180  
cgtccagtc aacttgttgc gtcaacaagt agaaacctt ttgcgtccta ttccaaagga 240  
tgtgcaacaa agaatggaaac gaattgcgga agccttgtta ttacaacctc aagacacgtt 300  
gatagatgtg gttgtggaa caggagccat ggtacctttt attcacaagt atattcctt 360  
atctcacatt tgggtgtgtg actgcagtga agccatgtca gaacaagcca agaaaaggt 419

<210> 3305  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E7

<400> 3305

acggatggaa actctggAAC agactcctAG tcttcaAGCA gcaaACAGGA tcaACCAACT 60  
gctagAAAact caaacAAAAAA cgatAGAAA ACAAAGAAA aagatacaat atgaAGTTG 120  
gaacGGTgCT gagtggACCA acaACAGCAA tctgAAAAT atagcatgCG tcttgACAGA 180  
gtgtgAAact ctTTGAAAG atatgcaAGC gttcgtcGA tgtatttatt cacaATTCA 240  
aaACCACCAg acggAAACAT gttcATTCC tacACAGTTT ttcgaAGCTT ggtctgCTT 300

gatgaaggaa ttggaggaat gtcatctgcc gccttgctc gaacatttg tgacgtatga 360  
catgtccaaa caaccattcg atgaaactct acagagactc gaacgttgc tatcct 416

<210> 3306  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F1

<400> 3306

agaattgctt cagcttgaag atgaactcca acactacccc taatccaatg gaaatagagt 60  
cactagagac taaccaagaa agagaaacca acgccccaga agtatggaa gaagaagaag 120  
aggatgagggc aaccaagaaa gatgatggtt cgacaagggtt tctcaaggta tttgcggtca 180  
tagctggttg gggctccact ttcttcggag tagatacttc agttattgga ggtgcagctc 240  
tgtatgttca acctgacttg agcatttctc ctggcagtg gtcatggatt acttctgttc 300  
cactttggc agcatgcttt ggtaggaa cctccatacc cctttgttac cacattggga 360  
gaaagtatgt tgtcctttta gctgctgttc tatatcgggc tggtgcta 408

<210> 3307  
<211> 205  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F10

<400> 3307

catcccgctg ggacatttgg cgttttctag cgacgctggc tatctattct tcgggcaca 60  
ctacattcac caagtacctt ccatagacca tctcaactggg gtgggtttac tggtacattg 120  
tgtacttgtg ggttagttgtg tgcctttgt ggttgcacc ctatggta ctccacgcac 180  
ggtcatccac attcgtcaac atgtg 205

<210> 3308  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F3

<400> 3308

agcaagcgta gagcagaaga actgggtgta aaggtcgagt agtagagtaa gtgtaaaagg 60  
gaaaggaaag gagagaaaga ggaaaggat gaaatgcaga gatctctaga gaaaggcaag 120  
aaagaaaaga aaggaagaca cagtaaatga ggcgagaaag cataggaagt gaaacggatt 180  
aggaacccgt gtagtctatg cagtaaaaaga aagaatgagt aagaaaaaag ggagtcattc 240  
caccagggga gtaaaggcgc aagaaagaaa cccaaagcaa ttgacggaa tcggaaaaag 300  
gggtggatca cgtaaattaa tccgatataa accgagaacc ttacctctcc aagaaggtgt 360  
tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa gccaa 415

<210> 3309  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-F7

<400> 3309

aggtccaaac aagagaagtc agcagtgggg aaaattgggc aatgtacaag gaagtatgac 60  
ccagtaatga ngagtggagt aaacagaaaa ggaagtaaaa ggagggatg aanggaagtt 120  
atggcaaaaa cacgtgccag cagcagcggt aaaacgtgtg tagcaagcgt agagcagaag 180  
aactgggtgt aaaggtcgag tagtagagta agtgtaaaag ggaaaggaaa ggagagaaaag 240  
aggaaagggta taaaatgcag agatctctag agaaaggcaa gaaagaaaaag aaaggaagac 300  
acagtaaatg aggcgagaaa gcatangaag taaaacggat taagaacccg tgtgtctat 360  
gcagtaaaaag aaagaatgag taagaaaaaa gggagtcatt ccacca 406

<210> 3310  
<211> 336  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F8

<400> 3310

cttagaagca gcaaaccaga gaggaaagcg ttaaagcatg aaagaaaaaga aatccgaaaa 60  
agaagagaaaa aaggtaaagaa agaggaccga atcaggtaa gaggttagagg agcaagaaga 120

gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag gtaagaaaga 180  
gaaaaaggttt acgagagaag gaagttagaaa gaagagagtg taaggcggcg tcataataga 240  
aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa agccgtactg 300  
aagaccgaca caggtactcg aggagaaagg agaccc 336

<210> 3311  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-G12  
  
<400> 3311

gggtcgccca cgcgtcagac cattgtcata tatgaatgat caaagttct taactggac 60  
acttccaaaa gatattcata gtattgccta ttctcgctc atttacagc gcttggaaagc 120  
gaaactggtt gctaatttgg caaagggaaat cggaaaagcgt agtaaacaag gcaaattcctc 180  
gtttgaagtt tggAACGAAT gtttagactt ggctgccgaa gttggaaagag cacatacgga 240  
gttgctata gcagaacttt cggAACAGTT gatacaacga gctagtgcta ccgattcttc 300  
tgtcgaaac atttgaaac agtgtcaaac gctgtttctt ttacatttga ttgacaaaca 360  
gtcgattttc ttgcgttata attgcttata tcct 394

<210> 3312  
<211> 79  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-G2  
  
<400> 3312  
  
gtgggtttgg tagtgctcca aggagtcaag taactcggtt ccaagttacc aatttggcac 60  
tcgggtttac caggaagga 79

<210> 3313  
<211> 375  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-065-Q1-E1-G8

<400> 3313

agggctcaag gggaaagcgt ctcgtggaa caactgttgt aacacttcac cgagcagttt 60  
tcgttacgtt ctctgtcgta tagcatgctt tttggagctg taatataacc aaagaacatg 120  
gcttgtgttag cagacgagcc ggcaggttgg acaccgagca ccgaagcagc gcaaactcca 180  
gtggacaacg actgtcttgc cccttcttcc cacccctctt caccccttgc gcaagtttg 240  
actataagat tcctactatt ggacagtaac gactttcgta ttgccttccc accggaaacc 300  
actatattgc agttgaaaca aagagttctg gaagaccaac cacaagcttt tttgaacttt 360  
ttagaacaca acaga 375

<210> 3314  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G9

<400> 3314

agcccaagcg tccgtgacga cgcaatacaa atcttatcaag aacagccctt tgaaaagact 60  
gaaacacttg aaagcacaaa agaacaattt ctccgtctc gagatatacg gtgttagtgat 120  
tcagaagatt cttagccgttc tgaacctttt accttggtag ctactatcct caacgcacat 180  
gaaggtgagg ttaatttgtt gaaatggaat ccacaggatg gttacgtctt cgcttcttgc 240  
ggcgatgacg gtgtataaaa tatttggcag ataagtataa actaattctg actttcggac 300  
aagacgcgtt gttcaactagc cggtgtcggtt gttctccata ttgttattta ctgttcgtgg 360  
g 361

<210> 3315  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H10

<400> 3315

cgcgtcagcc caagcgtccg aaaggagacc caaattaagg tgagagaatg gacgataagg 60  
aactaggcaa aaggatatgg tatctgcggta agaacatatg aaagaagcag caccgactgt 120

ttagcaaaaa cacagcactc tgcagaaaag agaaaatgtt aagtatacgat tgtgcggct 180  
gccaaatagt agagaaaaaa tcgatgaaag taaaagcgat ggtatagaga 240  
atggcggtcc taactgttaag gatccaaagg tagcgaagta aatagacgtt tgaaaggcgt 300  
ccagtatgaa aggagaaaacg agtgttagcac tgtcttagtcg tccaaactcag cgaaacagca 360  
ataactgtga aaatgc 376

<210> 3316  
<211> 182  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-H11

<400> 3316  
taaaagcaac aacaaccgca atgcttatcc ttgtgattt ggaaaacggt ttccctacta 60  
gggcacgaag ttgcatanga atatgtcgag taacanagaa gaaataaata aactaagtgt 120  
atttgttttc gaagaagaag cgtattctgt ctctcttgc gcttcttgc aagggaccaa 180  
gt 182

<210> 3317  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H12

<400> 3317  
cgcttcagca ataattgtcg ttagtggc aaagccaaa gcagttgagc acagcaatat 60  
cgatatgtca agtggctgga ataactacag tggAACGGAA ggtaatggga atgctggc 120  
tggcaaggg aagaacaagg ataagaagac tagtgagaa cttgcaaaag atagttaaa 180  
gggtttggga atggcagcct tgcagcggg taagctggtt tatcgccgtg gcaagtggc 240  
tgtggataag gtggaaaggcg ccattgacga ccacaagtca taaggaagta agagtggcgg 300  
tggtgaaaat tcacgttatt ctcgttggaa cgtataaacg tggatagaaa cagaacgaga 360  
cggtttta tagttgtgt gctggat 387

<210> 3318  
<211> 370  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-065-Q1-E1-H3

<400> 3318

ggaagttagaa agaagagagt gtaaggcggc gtcataatag aaatccgaaa ggagttagaaag 60  
aaaagagaga gaagaaagaa aagaagagaa aagccgtact gaagaccgac acaggtactc 120  
gaggagaaag gagacccaaa ttaaggtgag agaatggacg ataaggaaact aggcaaaagg 180  
atatggtatac tgcggtagaa catatgaaag aagcagcacc gactgttag caaaaacaca 240  
gcactctgca gaaaagagaa aatgtaaagt atagagtgtg cggcctgcca aatagttagag 300  
aagaaatcga tganagtgaa agcaagtaaa agatgaggta tagagaatgg cggtccaaac 360  
tgtaaggatc 370

<210> 3319  
<211> 329  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H5

<400> 3319

gaatttagaga atggagagtt gctatggcat tgtgcatgg gttgaataca aactgtcaga 60  
ttcctacgaa attgccagct gtttatcac aggaactttc tggccaggt caggagtctt 120  
ctgatatgaa tgctctcaga gaagctgaaa tccctgaagg aaactctatt catttaatg 180  
accgtctgtc cgacaagaat tgcaacgtca atgaatctgt agagactgta cacaaactgc 240  
cacaacactt gagaaatgat caatacgaga aggcttggga tactgaggct catactataac 300  
aaccaaagca ttggacttgc agcctttc 329

<210> 3320  
<211> 305  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H8

<400> 3320

tgtgggccc tgtggtggtg atgcctgga ttgagctacg tagtggaaac tccgctgtct 60  
tgaaaagacat aactgcaagt attgaaaagc ctgacataca atggataact acgacgaatc 120  
tcagtaactg tctgaattct gcagaaggaa atgttacggt tgacttgtcg cagcagtgt 180  
gcttgaaga tatatttca ttgaagcttc tcgagaataa cttaagttg gcgtgtttt 240  
atgatgcctt gtttttagtt ttaccaggct ttcctttgt tattactggt aatcgatat 300  
tctgt 305

<210> 3321

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H9

<400> 3321

agcttacaga catgatagcc gatgccttc acattcaagg tctccacctc cccgaagaag 60  
ccaccggctcg aggagcagat ctcctccccg aagaagattt cgacgatctc cttagatag 120  
tccaaggaga cgagatgact attctcgag tagtagtaga agtccgataa ggaaggaaga 180  
aaatagaaat aggaatctt cccccagcgc ggagaacaac catcgatgt agggcagtta 240  
tgaagaccgc cgtaggtctc gctcaaggag ctttagagt actgagagga ggcgaggtga 300  
gaattccaa aacgagtcac ctagaggtga agatgaatac taaagttca aggaagttag 360  
cgacctgatg ttccctgaaa cgttccctt cttcctggg gtgg 404

<210> 3322

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-066-Q1-E1-A1

<400> 3322

aggcaatttc cagagttgat gtcggaggat aaccgtgtct ttgttgggtt tctccatgg 60  
tctataagtg aggacgactt gaaacaagta tttccaagt acggagaagt cgtagatgcg 120

agggtggta tggacagaga aactggacgc tctcgaggt tcggtttgc ttcatacgct 180  
gaaagctcgta cagtggacga atgtatagct gccttagacg gtcaggacct acaaggtaga 240  
accattcgtg tcaacaaggc catgactcgta gaacaacgag atgaagagtt tgcttccgga 300  
agaggaggtg gacgaggtcg ttatggaggt ggtttcgtt ctggtggtgg ctttgagcgt 360  
anggactacg ataaccgcag gaactatgac cg 392

<210> 3323  
<211> 245  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-A2

<400> 3323

agcccaggca tcaggtgctc gtaacgctgc tcgagtgatt aggaagggtg gcatccaaaa 60  
tggtaaccctc aaggatacg tgttncggg aaaagtcaag gtttcgggttc aacagaacct 120  
aagggaagat aaggtccccca cggcttggca gttcgcccat tttagtagta agtttaatgg 180  
gtttaacacg tccagtggca attccggccc taaacactgc tagatgaagg aaatgctaac 240  
ctatt 245

<210> 3324  
<211> 373  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A5

<400> 3324

agcccacgcg tccgattcgc ttgtggcgtg tgaagtttg gttaccttga aagaatgcag 60  
atatttgtaa agacacttac tggcaagact attactcttgc aattggagcc ttcatgatact 120  
attgagaatg tcaagtccaa gatacaagac aaggaaggaa ttccctccaga ccagcaacgt 180  
ttgatatttgc ctggaaagca acttgaggat ggtcgtaactc tttcagacta taatattcaa 240  
aaggagtcta ctcttcactt ggtattgcgt ttgaggggtg gaatgcagat atttgtaaag 300  
acacttactg gcaagactat tactcttgcgt gtggagcctt cagatactat tgagaatgtc 360  
aagtccaaaga tac 373

<210> 3325  
<211> 385  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-066-Q1-E1-A6  
  
<400> 3325

agccccacgctccggccacg cgtccgtgca aagccaaact atttggaacg tttatttagtg 60  
ctcggttactc aagttggatt ttgcgccttt tatactacta tttatctatt gtcaccta 120  
actgcacatc gtatcggttgg ttacttagaa gaagaggcag ttgtatcata taccgaatat 180  
ttaaaaggaa tcgatagtgg tttgcattgca aatattccag caccgcaaata tgcgattgat 240  
tattggcaac tagatagcaa tgctcgttt agagacgttg tattggcagt gagagcagat 300  
gaggccaaatc atcgagacgt gaatcacctc aaagccaaatc ttttatatac aaagcgtgga 360  
aaggaaactg cacctttgtc cgtat 385

<210> 3326  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-066-Q1-E1-A7  
  
<400> 3326

agggggaggg aggaggatgc aagggtggaa gaaaccagtc ataaccgatg cttttggaaa 60  
cagagtaact tatgtgttga aaagatattt caacgcacct actactggag aagagttgcc 120  
acattcggttgg ggtggcatg tgaccgatgc agatacggtt ttacggcaca aagggtctggg 180  
agaagaaaaca gcgtatccc tgaaagaaga cgctcgcaag tttgaaaagt tggcaaaaca 240  
gttgaaaagt gcgttgaatt cagggaaact aatgacaaaa gaacaactca aagtggccat 300  
ggaacagaga ggaataacaag tatctgaaga gggtttagag gacttgcttc gtctaaaaga 360  
gcacattcga ttctcgatg caagtagcag tggtagttaa gaaca 405

<210> 3327  
<211> 342  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A9  
<400> 3327

cgggtcgacc caaacgtacg gaaaactgca acaacgtcat tcctggcgac aacaaacaga 60  
caaggtcaca agcaatcgga acccgcaatc ttcgaagtag aacaattccc aagcccaatt 120  
aaagttagttg ttttatattt cgctgatatg ctttgttgc tcaaaacata ttgaaagctt 180  
ttgaatgtgt taaagagact gatTTTCTT taaaaaaaaaaaaaaaagac aaacaaaaat 240  
aaaaaaaaat agcaaaaaaaaaaaaaaaaacgaaaaaaag aaaggaaacg aaaaagaaca 300  
gaaagaactc aacactagac atgaaataaa aaaaaagggg gg 342

<210> 3328  
<211> 441  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-B1

<400> 3328

cacgcgtcag ctgacacctca ggaagtcttc tagtgcaaac cttgtatcct ccccacgaag 60  
aagcaccacc acaatgtttc tcctcctcat ctatgtatggaaatgagagt agctacgacc 120  
agttctccag aatcggtttt gggtgaaaag tcggaagagt cgggtggat tgaaattatt 180  
ggagcagggaa gaataggcca agtacatgca gaaaacctgg cttccgtat caagaaaggc 240  
agattggtgg gagttgcttc aggaacccaa caattggcag aaagatgttag tttggctact 300  
ggatgttaagc cttattatga ctatcattta ttatttaggg atcctagtgtt ggtgcagtt 360  
tgtattttttt ctggcttcaa tcaacataacc anacagatta tggaagctgc aagagctggc 420  
aaacatatct tttgtgaaaa g 441

<210> 3329  
<211> 408  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B3

<400> 3329

agaaaatgta caacgattat atagacgcag gtagcaccca cgacgatgaa aagaatacta 60  
cttgagaac aacaacttcc caagtatcac ccgaacaaca acaagaagct gcacagttc 120  
gacaacaaca attacaacaa caacgaagtt tacaagcggtt gaacgctacg cttggccagt 180  
tttggacga acaaatgcga gaggtcagcg tcataccga cttaaaaac catatgctac 240  
cttggcaag aatcagaaaag attatgaaat ccgatgaaga cgtgcgcattt atatccgcgg 300  
aagctcacgc cttgtttct aaagcttgcg aatgttcat tttggagttt accattcgag 360  
cttggcaca aacagaagag tcaaagcgta gaactcttca acgttgtg 408

<210> 3330

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B4

<400> 3330

gaccacgcgt cagcggacgc gtggcggac gcgtgggtttaa taaatattct 60  
attccttta aaagaaaaaa aaaaaaaaaatc aaaaataaca accaaacaac aaaaaaaaaac 120  
ggcaaagggtt tcaacaacag caattacaag aagaacgcac attacaatg cgtcgaacgc 180  
tacgcttgca cactttgcg acgaacacct gcgagatgtc ctcgtcacca cccacttgaa 240  
gaccatatg ctaccttgg cagaaacac cctgactatg acatccttg accacttgca 300  
catgatatcc gctggagcac ccgccttgg ttctaaagcg tcgtcactgt tcactcttgg 360  
aattgactat tcgacccttg ggcacaccac agaacactca cagctgtgaa ctcttcaacc 420  
tcgtgata 428

<210> 3331

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B7

<400> 3331

agtttaata ttgactcca ccagtcaacg attcggtgtc gctgctgaac acgttatga 60  
cgtaaacgag aataccaagt tgcgtttgg tggaaagtt cgtcacggag aatcgacccc 120

LIB190-066-Q1-E1

ggcaggatat gtcattgccg aatatgactt tacggttcc aaagaagatt ttccgataaa 180  
cgttcgtgca cgtgcgatat gtaaaagtaa ccagtgcac ggcgatattc gtgc当地 240  
gaagtttcaa gtggacgaag acacttctt attttcttg gccaaagctt gtactcagga 300  
actaacaaaa ggaagttata ttattggtaa agctggagtg acacgtgact ttc当地 360  
tgaagacact ttccggttgg gtgc当地gtg tgaccaagat ggaaactgt 409

<210> 3332  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B8  
<400> 3332

aggtagaaag aagagagtgt aaggcggcgt cataatagaa atccgaaagg agtagaaagaa 60  
aagagagaga agaaagaaaa gaagagaaaa gccgtactga agaccgacac agtactcga 120  
ggagaaagga gacccaaatt aaggtgagag aatggacgt aaggaactag gcaaaaggat 180  
atggtatctg cggtagaaca tatgaaagaa gcagcacccga ctgttagca aaaacacagc 240  
actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgcaaa tagtagagaa 300  
gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata gagaatggcg gtcctaacgg 360  
taaggatcca aaggtagcga agtaaataga cgtttg 396

<210> 3333  
<211> 420  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C1  
<400> 3333

agggcgaata ttcatgcgt agaaaaatg aatgagac gacttgtcaa aaacactgt 60  
tatatttggta aataaaacg tgcacaaaaa tagtattcaa gaatatgttgcgtatacaag 120  
ttttgcgtatgatgacgaat gagcgtatgg acactaacaat gttgaagatt gctaccaagt 180  
ttgaaatggc actggaagaa actcctttat atatgaatatttattatca cgtcaacga 240  
gaaagcgaaa tcgagagtgc attgaattga gtgagcacaat gcagaagctg gtgc当地 300

aagttagtatac tactgcaatt ccagatatac actttacaat gacgcttac agcacggcaa 360  
ggtggaaagag aacaacggtg cttggcagta ttgtgcgtcc tatcgatgac ttgtcaaaga 420

<210> 3334  
<211> 235  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C3

<400> 3334

cgcgtcagcc caagcgtccg gggattaca agagatacac ttcataagcg tcgccttacg 60  
ggaggtaaaa aggctataatg gaggaagaaa cgaaagtata atttggaaag acaacctgca 120  
aacacgaagc tgggtccaaa ggcagttacga cctgtgcgag taagaggagg caattacaag 180  
tttcgagcac ttcgaatgga ttctggtaac tttcatggg gctccgaggc gccta 235

<210> 3335  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C5

<400> 3335

agaatggttg gtttcgtcgc ttccgtcctt cttttgtat tctcgtgtat tgacacgagaa 60  
aaagtcctta agatggaaag agctttgaaa agcagtcac gtcttgcgc catacgcca 120  
aagcctgttg taccttcaaa agggtctgaa acttttcgt tgcacatgtat tggtgccacg 180  
tgggatggtg gttgcacgta ctatataagg ggaggagggt catatattac taatggaga 240  
attacagttac cttcaagggc gtctaattccc atgaccaagg acgagttctt cttactgggt 300  
acttactcga gagacaagct ttgccgtg tttgatagaa ctctacaaag ttccgaaaca 360  
cagtagtgtg ggttactttg gggtgtatcc tcacagttgt tttataaac 409

<210> 3336  
<211> 368  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C8

<400> 3336

agggaagtgt tcgtaagcat caagaacttt caaggaaacc aaaactggcc aaccctggta 60  
ccaacggcaa ttccctccaac gcatttttg gaacaattag tccttgggt gaatttaatg 120  
gcgggtttga taatcaagga ggaattaaaa tactgaacca aaggtgtcaa aagctggatt 180  
agttggagca agtgcaacaa agaaagatta atgattggaa agagaaaacta aaagttctc 240  
aaggccgtgt cgatgaaaca actggcaaag acaaaaagggt ttgagagcga agaagagtat 300  
caaagaaaagt tggagcagct cgaaaaggaa aaacaaagca tcatcagtga aaatatgaaa 360  
gctgaaga 368

<210> 3337

<211> 342

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C9

<400> 3337

agcttttggc ggtggtaag agacatgtct caaaatttgt tacgttgcag caactaaatg 60  
catttacttg tcgtttaaac gacagcttcc aacagattga ggaacgactc aagatgttgg 120  
aagtaaaggc aacaagacta gaggaaacga cgaataaatg ggacaagtgg ctacgaagta 180  
ttggaaaatg gagagtgaaa ccacaagaca acaaaaaagt gttgcgaaa aaatagacct 240  
ttccaacgt aatggtgtca caagttctta cacacaactt acaagctcaa aaaccaacat 300  
gactttatga agcgcttata aaccggaaat ttctgtcttt tc 342

<210> 3338

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D1

<400> 3338

aggtaacaca caatatgatg atgatgatgt gcgtggtaga agagaatcga gttgtat 60  
cttggagcct acaaatgaat cctccatgc ttccctattg gaagaagaaa gtggagatat 120  
tgatctggaa tcttcattga atcggtttca tatggatatg gagttgagtc aacgtgctcc 180

acctccacca cctacggcac cttctttagg attagaacct ggaacgtccg cacctgcagg 240  
ttctggtctt cctgcaagtc cttnntctgt tgcgtggact cgaggctcga ggtcatcgag 300  
tgttgcacca ggagaaaatga ggacttccaa gtggctacgt gctagaagag gattgacaag 360  
cagtgaaaca agtgatcgaa gtcagatgct ttcacgagag acttgatgaa gataaagata 420  
tct 423

<210> 3339  
<211> 311  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D10

<400> 3339

gggtcgaccc aagcctcaag ccaagcctcc ggaacgacac tacaatggtg gtggaaaagt 60  
tgtgttaac gcaaccgacc actccggatt tgcagtgggt caagctcggt ttccggatta 120  
caacgatgaa atgcaacatc catcgccatc ccaggatggg tcatcggtc aaaacgaaac 180  
agagaaaata acgattgtt ggaagcttgg taaaatacaa gaaggattgc atttggctgt 240  
ggaacgagta tggtaaacc ataccaagta tgtaaacag tttcaggtgc aggtgggaca 300  
gcagaacctt t 311

<210> 3340  
<211> 404  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D12

<400> 3340

gtttgttcaa aagcagcatg atgaagagcg ctatgaagtt ctttgtatTTT agcattatTTT 60  
tggcaaATGT tggctttact attcaagcag caacggTTT ggagactttg gagtcactga 120  
aatatacaga gtatcttgac atggtaaagg ctgcaggcct gcactcgaag ttcaacgact 180  
ctgctgttac atggactgtt ttgcagcaa acaatactgg agtcaatgcc accttggcac 240  
cagagcactt ggtttctaa tatcacatct aatgcgacgg agagcaaaga cattgtggaa 300  
tatactttgt acaaccatac tctttgtca gatgatatta agacaggaac aactatcctt 360

accggccgtaa acggaatgaa tttgactgtg gttaagaata cgac

404

<210> 3341

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D2

<400> 3341

aggaaatttc agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaataaaa gaagataaat tcaaaaaaga 180  
atgattttat aaatacctag acagaaaact tcattgatag taaacaacta ttaacacatt 240  
tttaaaaaaa cggcacttgc gttataagta agtactacct gatattgaat gcacaatgtc 300  
gaataacgaa cgaggatt 318

<210> 3342

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D3

<400> 3342

accacgcgtc agcaaaggct ctgtgacttg aaacaaggct acactcagtt tggaggtttgc 60  
aggccccttg gagtatctt cctttcgct ggttggatc gacactatgg tttccaactt 120  
taccagtcgg atccaagcgg taactatggt ggttggagg caacagcaat tggcgaaac 180  
agtacagctg cacagtccat ttgaaaacg gactatcaag atgacatttc ttgaaatgac 240  
gctttgaagt taactgtaaa agtttagga aagacgatgg acagcgctca gttaactagc 300  
gagaaacctg aatttgcgac cctctcgttt gtcacacctg agcttctcca gttccaccac 360  
ctttcaactg aagag 375

<210> 3343

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-D4  
<400> 3343

agccccacgct tccggccacg cgtccggcga acgagaaaagg tcggatcggt tgaaaagtat 60  
ggaacacggt atggcgcttc tataagaaaa cagataaaga agatagaaat tgcccagcac 120  
gccaaatatac tgtgtgcttt ttgcggaaag gattccataa agagaaaggc gtttgttatt 180  
tggtaactgta aatcttgcaa cagatcaata gcgggaggtg cgtggctct gagcacccaa 240  
gcagcagcaa ccgtaagaag taccattcgt cgtttgagag aaatgacaga atcgtaacgg 300  
agcaaataatt accaacttgg ctgtntgttc gcaacttgca agtgaardtt gctgttcct 360  
ttatcaataa gaataaagag acgagggtct ctcactttgc gacaa 405

<210> 3344  
<211> 409  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-066-Q1-E1-E10  
<400> 3344

agggttagct ttgtttggc actgtttttt tggggtttca ctcgtgtgtt ttgtatTTT 60  
aaaactctaa gaagactatt tatttcttgt tatgttttag agtctttct agactctgtt 120  
ttttggagtt gttctactcc agtcttggtg gtaggtgaat gttcttagt acaaagaggg 180  
ttgtcacttt cccgccattc tccacagctt caactaccaa cttgtatacg cccacaactg 240  
cacaactata ttactacaga gtcgtgtgt aaaacgacaa gttgagtgg tggaaaaggat 300  
tggtaaaaag caaaggacta gtgagagaga gcacttgaaa acttgtatat ttgtaccccc 360  
tagaaaactat ttccgcttga agagattgca agtttgggtt attcgacaa 409

<210> 3345  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-066-Q1-E1-E3  
<400> 3345

agggaagctg gcgagcattg ggTTTCTTCC cgagagagaa aacgagtgc aaaaagggtct 60

ttcgatgtct agtgttgatg cgcatccaac aatagtttat cctcattatg tcagagctt 120  
agatgaagaa aaagctcaac taccatctag ttttcctcga gaatattcgg aagagttca 180  
acacattta cccaaagggtgt tgcaagcgcgg ttttcatata ctaaccaaacc taaacaacca 240  
aaagggtaat ttatcaaata tttcgaaaaa ctttgcgttg agccatccac atattcacgt 300  
cgttattctt cgaagagccc tggatggtgc tggttattac tccgcttacg tgggttccca 360  
ggtacaaggt ccctcggtt ttatgcatgg aggagctaca gcagca 406

<210> 3346  
<211> 436  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-E6

<400> 3346

agccccacgcg tccgctccca tgaaagatac agagaacaag gacagtcaag atgttagagtc 60  
tggaaagaag agcgaaaaga agaaaaagaa aaaggacaaa catcgtgata gtcacggaaa 120  
acatagcgaat tcgaaggaga agcacaagaa ggattcgaag aaaagaaaac acaaacattc 180  
gtctgaaaag aagaaaaagga aacgaagctc agaagttcca tcgacagatt ctgatttac 240  
aagtggagaa gaaaaaaaaata ccaatgagaa tctgcaacaa tcccagtttgcgacagagaa 300  
tactcatagc aacaataatc ttatatcttc cccgcagaat aatttcacgt ctccacanaa 360  
aaangatcga cccgagacaa aatctttctt ctccgaaaca acgaccagac caaactcagt 420  
ggaatgcaga agcaac 436

<210> 3347  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E8

<400> 3347

agccccacgcg tccgcccagag ttcaagaaat acgcatttca ggttcaagcc aatgcccggag 60  
ccttagcggc ggaactggaa aagcgaggat ataaacttgc tactggtgaa actgataatc 120

atcttgtctt gtgggattta cgcccagtaa atcttacagg ctccaaaatg gagaaaatat 180  
gtgatgctgc gcataattact ttgaataaga atgccgtaca tggagataca tcggctcttg 240  
tacccggtgg agttcgaatt ggaactcctg cccttacttc gagaggtttc aaagaaagtg 300  
attttgtcca agttgcagac ttttagata gagcagtcaa acttgctctt gcaattcaag 360  
aaaagtctgg aaagaacatt aaggattca atat 394

<210> 3348  
<211> 327  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F2  
<400> 3348

agcttacaat atatatttg tgaaagacaa gaaagaaaact ctcctgtggg atggcaagtc 60  
aaagggtcct cctcgcaagc taaaatttcc tcagggagaa accatcctgg agtcaactgaa 120  
tgcctagacc agttatctag tcattcggag ccttcgcta tatgacgact tttaccgaaa 180  
agaatccgtg attctggtaa aagtctgaca acgtttatttgc ttcttttgc agtcgaaaga 240  
acagtaatta ctagtaaagg ctcagaagac tggagattgt tatttaaaaa gaacaatgtg 300  
agtccctcagg tgtatctgcc cgccggat 327

<210> 3349  
<211> 325  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F3  
<400> 3349

agcccactct tccgccccacg cgtaccgcga agatgttcct tatgaacaca aagccgtaca 60  
agaagctgcc gttatcggtg tgcctgaccg atctcgatga gagactgtcc gaggtttgt 120  
tgctcacaag gtcgaatcca gaatttcgga atcagatctc aaatgattct gcaagtggac 180  
actctgcgtc tacacctatc cccagaacat cacaatttca tcgcagaaac cattgctctc 240  
ctcagcggtt gattccttcg agtttccag cagaacatgt gattgaaatc ttatccgcaa 300  
tctaactaca atgttgtcac tggca 325

<210> 3350  
 <211> 402  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> Clone ID: LIB190-066-Q1-E1-F5  
  
 <400> 3350

agagcagcaa agtgcaacaa ccagaaaagc agtcaactcc gccctcgta cctcccaagc 60  
 cacctcagca agttgttag acaagtaagc agagtttgt aggttctgaa gtgggagtaa 120  
 agagagtggc aatgacacga atgaggcgtc gtattgcgga acgactaaaa gaagcgcaga 180  
 atactgccgc tatgcttacg acattaatg aagtagatat gtctgcttg atggagttga 240  
 gaaatagttttaaaggaagcc tttgaaaaga agcatggcat tcgtttaggc tttatgtccg 300  
 catttaccaa agcagcaact ttggcttgt tagaacagcc ggaacttaat gcttatattg 360  
 acggcagcga tattgtataat catgactatg tcgatatctc cg 402

<210> 3351  
 <211> 410  
 <212> DNA  
 <213> Cyanidium caldarium  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB190-066-Q1-E1-F7  
  
 <400> 3351

agcccacgcg tccggcagcg tttgcaattt ttgttgttag tgagtagtgtt catggcagag 60  
 caacaagaa gtgagagtac tgaagttaga agtgctgcag ttcccacccc ttgtataaag 120  
 gtttgtgggt ttatggta ctcttccact cttgacatgt gctccaagtg ttatagagaa 180  
 catttgcgcc aagaggaaca aagacttcaa gtggagtctg tatgtcagca gcagcaacaa 240  
 caacaacaac aacaacaaaa gcaggataag gaacaagaaa tgactcaagg gtccgagttg 300  
 cacgacttgc cctctaaaaa ggagcaaggg gaagagacgt cggtgaggt ggctcaacct 360  
 agccagggtt ttgtgcgga gagttgccga nggaaaaact cggaatttgt 410

<210> 3352  
 <211> 206  
 <212> DNA  
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F8  
<400> 3352

agcccacgca tccggccacg cgtccgcccc ca cgcgtccgg attgttgagc agtacaagct 60  
atccatgccc gtttctgtat gggcgcttt tattcgact tagtatttag gcctccattc 120  
ccacacctcat atacacagga agacttccat aaaactggga tagaaccac acaaaacagt 180  
gtgtccctgt gtacacacat tgaaga 206

<210> 3353  
<211> 259  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-G2

<400> 3353

gtccgacagg cgctacnggg aatacaacta gttccctag ttcggtttcc acggaaatac 60  
caaccagtgt accaacaaca tcatcttcga ttactatcct tactgtcttg caagacaacc 120  
actttgacga tacagtacaa gctataaatg cggcaggact tgactcttg tttaacaatc 180  
cttccgctac tcttactttc tttgcagcan atgactctgt atggtctact tctacagctt 240  
ctcaagctct gagtgctct 259

<210> 3354  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G4

<400> 3354

agcccaagcg tccggtttag gaacgatgaa gtggcaaagc ggtcctagga atacaagttt 60  
taataggata caaacgctac tgctttctt gttgattatt tgcaacgtt ttccatata 120  
ttactctata caatttata tgaacgctgg aacgaagcgt tgtcttcgg aagaaattac 180  
ctcaaacaca aagggttttgg gtgaatgtct tgttagtcgg gcggaaggct ccatgtccgt 240  
agatctgttg attcgaggac ctcaagggga gactatagtg caacagaaga acatagataa 300

gcagtcattt agcttcacaa caccacagca cgttcttgct ggagattcga gtttggcttc 360  
caacgatatt cactggcctc ctgcaagtta tcactttgt ttcgaagcta gtcctcctcg 420  
tcctcctc 428

<210> 3355  
<211> 341  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-066-Q1-E1-G6

<400> 3355

aggaccgaca caggtactcg aggagaaaagg agacccaaat taaggtgaga gaatggacga 60  
taaggaacta ggcaaaagga tatggtatct gcggtagaaac atatgaaaga agcagcaccc 120  
actgttttagc anaaacacag cactctgcag aaaaagagaa aatgttaaat tataaaattt 180  
tccggctgcc aaattataaa aaagaaatcc attaaagtta aaaccaatta aagattgagg 240  
tatagagaat ggcggtccta acggtaagga tccaaaggta ccgaattaaa tagacgtttg 300  
aaaggcgtcc attatgaaag gagaaacgat tgtaccactg t 341

<210> 3356  
<211> 196  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G7

<400> 3356

gtcctccacg atagcagtga cccatattta cgtgagatca tttccatga ggatctcagc 60  
aactggatct ggtatctgct ctgcacatc tggccggag catcatccac tgtttaccat 120  
ttgcacaaca ctctgcacgc tatagaaaact gtaagatatc aatcggtcgg cctgccacct 180  
tccactaaac aaatct 196

<210> 3357  
<211> 380  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G8

<400> 3357

agggagaaca ttgcaattgg ttactttccc tgotaatgttt ctcatgttat tgatggttct 60  
gttttcctt tacggagata agaaagtcaa ttttagccttc tttattatcg gagttatatt 120  
ctttattatt gcctatacgac ctggtgctgg tcctgttcct tggacatttt gtgctgaagt 180  
atttccaact tatgtgcgtg cagcaggaac gactattact acttggtttg tgaacgcttt 240  
caactttgcg cttdcattct cgtggccttc tatgaaggct gcatggggac ctcaggagg 300  
tttcggattc tatgctggtt tcaactttct tggcatcggt atgcagttct tattcttacc 360  
tgaaaccaag ggctttacat 380

<210> 3358  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H1

<400> 3358

agcccaagcg tccgccccacg cgtccgcccc ca cgccgtccgca ccagcagtga atcagattga 60  
aatgcatccg tattatgcaa gaacagatct gctcgaattt tgotaagagtc gtggagttca 120  
tgtgactgct tattctcctc ttgggagcgg taaacatggt ccgcttcaag atgagacagt 180  
tgcaaagatt gccaagaaac atgaaaggac acctgctcag gtattgatcc gatgggtct 240  
acaacgtggg tggccgtta ttccaaagag cgtaaagaaa gaacgtatca aggaaaactt 300  
tgatgtctta ttcaattga gtccacagga tatgaaggaa ttggaaagcct tagataagaa 360  
cataatcctc aatcatcaaa aggaatattt gggttcaat attcacgctt gag 413

<210> 3359  
<211> 418  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H12

<400> 3359

ggctcgaccc aaacgtcagc ccacgcgtcc gcccacgcgt ccgcggacgc gtgggtgcaa 60  
atgagcgagc aaaccgacct tccttctgaa ggcttgacta caaagaaaaga cctttccatc 120

aagggtggaga atacaactcc gacaattgaa ggaaaaagta tacctgaaag tttgtgggt 180  
cagctggaag aacttgagaa ggctgagagt ctttcacaaa ctcatgttga tagttccaa 240  
cgaaaaagaa aaaaagagga gttcaactgtg gagacttag aagaggtag tggaaagag 300  
tcacctacga agagcccaca caagtctacg ggagttactc caaaactgga gtcgctgtcc 360  
ttatcgaaaa atgaaaatag gttgaaaaga cttagggagt gtgacctcgc atcactca 418

<210> 3360  
<211> 387  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H2

<400> 3360

agcccaagcg tccgtatac ttgaatatgc aagaagaaaa ggaatagaca gaattgtaga 60  
gatgaacggc aaatggtgga tatatactag gacacctccc aatcgaaagg cactgcggta 120  
ttggtatgac atggactgcg tgggttgaa cccagtcaag gacttacaaa cggccaaagc 180  
ttatgcgaga agagtaaat aagcagtggaa gaagagaact acggtcgaat tgcccaaaca 240  
agatatttgt gtacgacgta gcgacggaa gaaacacggaa gtggtcgcta ggagaggaga 300  
agatatttgag tttgctcaag atacagcgtt tacaaggca agtaccgtcg gagtaaaagt 360  
ttggctgaga aagaaaccgt actggag 387

<210> 3361  
<211> 243  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H6

<400> 3361

agcccatgct tccgagcaat tacaatttgg gacatctgtt ggcgctgccg tttagtaatt 60  
ggagtatgag tgagaacata ccaacggagg acgtccata ccacccgttt ctttaggagaa 120  
ctgtttactg gacgccttgg ccacgcttgg ctaaactcag tcctaacgaa agggttcgag 180  
ttaatggcag cggtctgatt ataacggcgt aaagtgggtt gatcatctac actgaactgc 240  
aat 243

<210> 3362  
<211> 327  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-066-Q1-E1-H7  
  
<400> 3362

agggaaaaacg tcatgcagtt gcgtattcct tctgctgcag tcaaaggcaca gtacttcgac 60  
ccaacgcaga ttgttgtgga ccctgtaaga gatacatcac gtccttgg cactggaggt 120  
tctgttgtac gaatactatg ttgcgatgga gtaattattt gtgcagatac tttaacttct 180  
tatggatcga tggctcgatt tcaaaacttg tcgagacttg tagacgttac tgacaatttg 240  
ttgttgggtg gtggaggtga aatttccgac tttcaagaaa ttcaacgtct ttttagaaaac 300  
ctcatcacat ttgacatttg tttaat 327

<210> 3363  
<211> 351  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-067-Q1-E1-A10  
  
<400> 3363

agccccacgcg tccgcccacg cgtccggctc aatggcggag aaaggactgg ttgttgtat 60  
aggtgcaacg ggtccgctt gaaaagaatg cgttctggca ctggaaagtg aaggatatcg 120  
tgtccgtgca gcaagcagaa gggttgaaac ggctcgttag atgctactcc acaaggtaaa 180  
gaacccttcg agagtggact ttgtccatgt cgatgttagt gaaaaatctg tactttctag 240  
cgtattaaag gatgctgaag tggttttctt ctgtgcttca gcttctgcan ggtggagagt 300  
ccctggtaact tctaagaaca ccccgaaaca agtggactac ttgggcgcca t 351

<210> 3364  
<211> 393  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-A11

<400> 3364

acaaggcctca tagtctgagt catcagtaac ccagttggat agagcctcg agagacgtt 60  
cgcatacttc tggtgatgat tatctatttc atgaggacgg tggaggaact actcagggca 120  
gtggtcgtga agaagaaagc atccaaatag gagtttggta tggaaagagt tggtgtaaaa 180  
ataacagttg gcagatggtg aaccaagtcc ttgcacagtt taaaggggtg tcattcgaaa 240  
caaagcccag taaatgcacg aagcttggta gtaagaatgg cgtaacggtg aaagttcagg 300  
ataagacttt gggaatatg aatgcttagta ctcttacca agtgttgaat acttgaaac 360  
actgcgaaag ccaggaacca gaattgcgtc ctg 393

<210> 3365

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A12

<400> 3365

aggtcattgc caccaaacc aacgattct ttgtgtttt gatcgatgga agctctccta 60  
tttctgttct tcacttgcac tttgttgaca aataagagtt tattcaataa aaccaaaaag 120  
tgctatcctc gtagaagaac aagaatgtgt tcgtccattc ctgtggatag acgacttggta 180  
tatccccgt ttcgttgtt agagaaacaa aaggatgcaa gttggacatt gaattctaag 240  
gctgtatcag agtttctcca acaataaaaa cattctccag ttttattcag aaattgtttt 300  
cctgatctat ttttgcaat tactccagaa gagctggcag gacttgcgtg tgaagatggc 360  
ttcgtgtctc gtatcgatca actc 384

<210> 3366

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A4

<400> 3366

agcgccccaca tttggattct ccatgtcttg gcaagtctat gtagaccaac atttgcttgg 60  
ttccggaaag gtaaaagacg cagcaatagc tagttacaa ggaaatattt gggcgcttc 120

tgccgggtttt caagcttcca cggaagagtt gaaaaagtgc attgcaacct ttcataaaac 180  
caaagaagca gctcaaaaacg gtatTTTTT gggaaataag aaataactttt tttgcgttc 240  
gacagaagat actatTTATG ggaaactggg tgacgatggc ttttagctt tgcaaaaccaa 300  
tatgtgtctc atcatagcga tatttaccag acccgatctt gccgc 345

<210> 3367

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A6

<400> 3367

agcgTTATTG tagtctacgc aaaacaaatc aagttattgt tacacatcaa agtattcacc 60  
actatacgta gaataggaaa tggattgcgt cgtcaagtga gcaaagccat caaagacctc 120  
atgtacagtg gtatccaggg catattgcaa aggagagag actctaaaaa gaaaaactca 180  
aacttgcga cgttggTTTG gaagtttagat atgcaagaat accaaagtct actgagcatc 240  
cagaactcat ttctggatt ggtgagaaga aacgattgat agtgcataat cgtaatgata 300  
tgggtcctcg cgaagcaata acctttgga tttagaacaat gaaacagcaa ggtttcaag 360  
tttttgatac aaacgcg 377

<210> 3368

<211> 324

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A7

<400> 3368

cgacccaagc gtcaggcata ccaatgatcg ttgaggaatt gtgagcagca gcccattgcga 60  
aaatgctatt acgtcctgtt tggAACACCT ttgcacagtt gacagagagg gggacagaac 120  
aacttaggttt gctgtcagag aggtctattc aggaacttag tgccggaaac ttttctgaa 180  
gaccctaaa tgaaggacaa tccccctcctt cgtcatgcgc caaaaatacc ccacaaagtt 240  
cttcttgcga gaaagttcct aattggaacg aaggggggga ttccacggca accacattgt 300  
ttgcaacggaa atgattcga ggac 324

<210> 3369  
<211> 394  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-A9  
  
<400> 3369  
  
acggcagagt tgatacagaa aatggaaaact agttggaaga aacacgttga aatttttgc 60  
gaggcgctga ttgctttgtg gcatacacaa atgcttatga ttgatgagtt ttccaagtcc 120  
tccgaggaga tacggccta tttcaagat tacttgaata acttgaacac aagtagtgga 180  
aattatgtcg gggatggaac atcggcgaca cttggagaga gtatggaaca gtcaaaaagt 240  
gctgaaaatg aagacaaaag gactacacga ccatttcagc gttcgaggca aacgacgggt 300  
aactcggaca gttcttctcc aacttttagat gaaaacggaa agcaagcttc gtcttcggat 360  
atttatcagt ctatgagaag tgctcaagca tgaa 394  
  
<210> 3370  
<211> 371  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-B10  
  
<400> 3370  
  
ggtgcatgtc ggaggaagag gaagcagatt ttgcaggaa ttgtgactcg gtgtctattc 60  
caaagaccac cgtgaacaaa gtggcgacag aagtacttgc caatgccgt aagttgccga 120  
aagaaagtgg acgaccaaga tggaacgatg tatatgatca ttgctatcgt atataggtgc 180  
gcatcttcg tccgatgcca aagaactatt ggttgggttt tttctgaat tcgtgcaact 240  
tgttagttcc cacgccaacg aattgtgtga aaaggaaaac aaaaaggta tttctcccga 300  
acacattta cagtcgttgg aagaactggg gtttgagat tattgccaag aagtgaaaca 360  
agtgtatgaa g 371  
  
<210> 3371  
<211> 398  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B11  
<400> 3371

ggaacgtaaa tggtttggaa tcgttgataa gaaaaaggcta ttttacaacc tttatacaac 60  
aaacaaatcc agatattatc tgtttccaag agacaaagat ttcccgaagg aaactagcgc 120  
agtggagtgt ggtcaccaaa gactggaact gctttcttc acttgcaag tcaaacgaag 180  
gttattctgg tgttggtaact ttttgtaaat tgtttgccc gttgttcaag gcagaagaag 240  
gtataactgg tttccttcct gcagagtgtc tctcgtaaa ctcgaaacga ccgtggttt 300  
gtcacttgag agacaatccc acatggagag aaacttccta ttctgtgggg taccatttg 360  
aagttggggg agactcggat aagttattgg gactagat 398

<210> 3372  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B2  
<400> 3372

cacgcgtcag cccaaagcgtc cgccccacgacg tccgcccacg cgtccggccca cgcgtccgct 60  
caagatgtct ttttgaaac gtatacagtc gactctgctt tccaaacagaa actcagtgac 120  
aaacgcaagt aaggccaatt acgacataaa gcacgttcgg gtttaccgct gggaccctga 180  
aaagggagaa gaacctaaat tggttaccta ctcgattcct ctcaaagaat gcggtcctat 240  
ggtgttggat gccttattca aaataaagaa tgaagtggac tctactttt tatttagaag 300  
gtcgtgccga gagggatattt gtggaagttg tgcgatgaat atagatggaa agaaccgtct 360  
ggcttggta actccg 376

<210> 3373  
<211> 333  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B3  
<400> 3373

gagccacgacg tcaaggaaat cgagtccttg ttgaaagaac gagatgctat tttgaatgg 60

acaagtgaag aataactttag tcaattggcg ccttttagaga atgaaaggaa acgttagactc 120  
gatagagcta tggactttt tcaacttcaa ctacaatatg cagaacagct gtatgagttg 180  
gccaaagaaaag aagcatatga tagcttcaa gcacaaaagg cagaacaaag agaatatatg 240  
tggcgtacga agttggaaag agaaattacc ttgagaatcg taagattatc cattccatta 300  
agggacccaa acggacaagt gattgtacga acc 333

<210> 3374  
<211> 356  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B7  
<400> 3374

aggttgacca aacagggact cgacagatat ggcttcgggt gttgcagtag acgatacatg 60  
cgaaaaaggag ttcactgttc ttgtgagaag cacgccaaga aagtaccgtg ctattattt 120  
caaactcact gatgacacctgt cttctgtatg tgtggaaaag acgcttcccg cagccaacat 180  
aaccaagtgc agtgcacaag aagactggaa aaagtttgc actgaattgc cccaaaacga 240  
ttgtcgaaaa gcaatgtatgc actttgagta tcaaacttct gaaggtgttt ccaaaaatag 300  
aataatattc attcttttgtt cacctgaaag tgcaagata aagtcaaaga tggtgtt 356

<210> 3375  
<211> 316  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B9  
<400> 3375

acgcccacgc gtccgccccac gcgtccgaag tttgggtt ttcttggtag cagttgtaca 60  
ttcaacatca tcaaatacgcca aaggaggaa agaaagattc ttcaaagaaa gaagccacaa 120  
gtaaacctgc agcagcagat gctacaaaga cgacagaaaa gtctggtccg gaagccaagt 180  
tgaagggaac tggtgcaaaag aaacaataaa aagttgacta tgcatgtgca gtcctgttat 240  
gttttggtag ttctgtttga tagttccag ctattttttt ggttgtaat aaagagaaaa 300  
ttttttatata ttacac 316

<210> 3376  
<211> 383  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-C10  
  
<400> 3376

cttttgaatc agttggatgg gttttttcc gatgataata tttaaagttat agctgccacg 60  
aatcgagtgg atatatattaga tcccccttg atgcgctcgg gtagaattga taggaagatt 120  
gagtttcctt taccggatga aagttctcg a gctcgatac ttcaaattca ttcaagaaag 180  
atgaatgttc atcctgatgt caatttgaa gagttggctc gtagtacgga tgatttcaat 240  
ggtgcccagt tgaaggcagt ttgtgtggaa gctggaatgg ttgctctaag agctgataga 300  
acggaaatag ttcatgaaga cttttagaa ggcattgcac aagtgcagc caaaaagaag 360  
ggaaatttga attatttcgc ttg 383

<210> 3377  
<211> 384  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-067-Q1-E1-C11  
  
<400> 3377

cccacgcgtc cgggtgggtg gtgaacagct tgggagacct tggaaagtaag gatattatgc 60  
aaggactttt attaagatcg cttttatttg ttcccgaaaa tagtgagaaaa atgttacaaa 120  
aagccttgca ggctcgtgca gatgcttga taccagattt ggaagactcc gtaccgaaag 180  
atgagaaggt cacggctcgt aacctcgtt caaaaatgtt gccttcgtta agaaacaata 240  
ctccaaagaa ggttcagata attccaaggg tcaactctt ttatacgcag tggtttgagg 300  
atgatttaaa ggcagttctc caacctggga tatcncagta accattggaa aggtanaaag 360  
tgctgaagag atgaaagaaa ttat 384

<210> 3378  
<211> 371  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C12  
<400> 3378

gcaccgaaaa gtagttgtt tcaaccgatt gtacgggtgg ttgaaagggtt gatgcgttcc 60  
tggaagttgt ttttattgtt tcttatgtct ccattggctg gtcgatattc accggtaaga 120  
ggatgatggt tgagggaggg gttttaggt gcactgacac acaacaattg tgacaaggtt 180  
tcactggtgt tgaaaatatt gggtttggtg ccggaagaga ccgctaggat gtcgttggat 240  
gacaacacaa acacggtgaa tagggtacaa acgggacctt tggaagagtc gaccataaca 300  
cataacgacg atcaggaatc caacttgtga gttttttagt atggaatgat tgtatgtac 360  
tctgaaaaag a 371

<210> 3379  
<211> 335  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C5  
<400> 3379

aggaaaacctt ggatagaaaaa gcagaataact agtctttttt ttcaagtatac caacttgcaa 60  
ttatgaaaac aacgctatgg aattcggtta aaagaataat tggactctcc agtcttgcaa 120  
cctagaacac taacgcttct tcacaaactt actcacgatt attccataca gcacggaata 180  
ctagtattcg tacatccatt ggaactgaca gttttggac ccagaaacac ttgtttgata 240  
ggaaaggttt caatattccg aaccgaaagt atttcctcaa accacgtcaa gacgactata 300  
ttcactttgg tggagaagg gagtcgggtt gggat 335

<210> 3380  
<211> 319  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C7  
<400> 3380

acggttccgc gggatggcgc cttctctagg caaactttgg gtttattcctt cgggagtggt 60  
ttttctaggt gcagctgttg tttgtatgg tttgcaacac gataaattgc cactagagag 120

agtccagttt gcaaaaacct tttcaaagcc cgtttcaaaa gcagataatc aagttgttcg 180  
agcaacacccg gaagaatgcg attgtcttcc gctttggcag tgtatgacta gtggccaaga 240  
cgactgttct caacttgaac gtgaactgag gctctgtatg gaacgaaaca aggttaaggga 300  
acaacacaag cgcaactgag 319

<210> 3381  
<211> 367  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-01-E1-C8

<400> 3381

agcccacgca tccggagtgc tcagaaacta aagtttctga ctatcttcaa gaaaccttca 60  
tggtcgaa cgaagaactg tccacgacag gcgcatact gggggtcgcc tcttcttattt 120  
tgttacccaa gaaattcggta gaagactttc ctttggagag ttctggcagt aaaatttcta 180  
gggtgttttt gagaccggat ttgatagacc tttggaatgg tcttagtgat gagcgacaca 240  
tgcgcaggaa aaatatatta tctgctgcta gtgggttagg caagactata tatctttatc 300  
tgatcgctgt ctttgcggca cactttgaaa tcccagtgca gtatattgga aacacgagag 360  
atctgct 367

<210> 3382

<211> 380

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C9

<400> 3382

agccccacgcg tccggcgaaa caagagaagg gaagtaaaag gtaagaaaaat acgaggcgcac 60  
ctgggttttt ttccatccca cgttggtagc ttttgtatgt acactcggtt gttgtattgc 120  
attgttggtgg tttctattac aactggctat tgccaatccg caatatcgta gttggaaaaaa 180  
agagtggata gctatcggtt ttgcgtcgat aggtttggga gaaggattgc tatttacgtt 240  
gatatacagt ggacaaaagtt tatgaactaa ggttgggttt ccctggtagt tgaggacagg 300  
tggaaatattt tcctgggttgc ttgtctcact cgtcgagccc cttgttgtaa taaattgcgg 360

ctagcctcca tttcttcgc

380

<210> 3383  
<211> 351  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D1

<400> 3383

agcccaagcg tccgcagttt tggccttgc tttgccaaac actcctctgg actcttcatc 60  
acacaactgt caaaattca tatttcagtc attgtatgca cacaatgagc agaagagtaa 120  
aaatattttg gagacatcaa gcaattatcc caatagaagc tcataaagag tattcctcag 180  
ccaaagttag cggagccagg catggttcaa ctagctgcc gttcataacc gttgagattc 240  
cctctgatat cagatagttt tcgcgtgcgg atggtttcca gcaagagatt atgttattga 300  
tcaaacttct gaattatcta tcagaaactg ggagtccaaa cgagagataa a 351

<210> 3384  
<211> 398  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-067-Q1-E1-D11

<400> 3384

gtgtgtcatg ggaagaagag gtggcagtgg tgctgctaga agaactccgc taaggtcaaa 60  
acctccccctt tttgcaaaaa gagaaggaa agaagcaaca acgaaacagt cttcacgtcc 120  
tgcgtttcg ctggccaacg tgaagaataa tcctacgagt gaaaaaccaaa gagagaagac 180  
caaccaaacg acgaccctc caactcagaa gcctagatg acctttctc tttttggggg 240  
aatgctanga agtatgctcc ccatgtttt atttatgaac tggttcaaga ggaatcccga 300  
ggaaaggaa ccagacaaag atgagatagc tcagaagaag tgtcagagggc ttgcgtgcaa 360  
tattcaagat tgtttgaaa aaaacgacta tcagcaaa 398

<210> 3385  
<211> 115  
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D2

<400> 3385

agcccacgctc tccggcgctt aagttcacga aaaattctac tggagacttt gtggAACGTG 60  
atccgggtctc tgctgctgac gtgaaaggcag gaaagtccgt cgttcaattt ttgga 115

<210> 3386

<211> 356

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D3

<400> 3386

cacgcgtcag ggaaagtgaa gaacttacgg gtggatatgg atgccatgtt tatttggaaag 60  
ctactggaaa tcccaagagt gttgaacaag gtctctagat gattcggagc gatgggtgat 120  
ttggagagtt tagttagtc aaagacaaga ctgctgtgga gtggacgatt attggtgaga 180  
caaaggagtt ggttatacta ggagcacgtt gcactggta taatggatat aaagtagcta 240  
ttgatatgtat tctccgtcac caaattccctg gtggcgtat tgttactcac gaactaagct 300  
tagacaatat tattcaaggc attcaatatg tcaacgagtg gaaagagtcg attaaa 356

<210> 3387

<211> 362

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D4

<400> 3387

agaggacatg gaagggaggc gcagtatcct aagcaagtgt ggcaccctt tggaggcaag 60  
tttcctcatac cgagggattt gaagaagcac acgaatatacg ctacccttat tatggcactc 120  
actgtatcc ctattatgtt ctatgccgag aagcatactg tctattacca gtatccttat 180  
cataagattc cttggaggcc caatttgaaa acttttgatg aagatttggaa ggagcgaaga 240  
aaggccaaga tggagaggaa gagtggtgca agcgatggtg atgaacagct cgattcgtag 300  
aacttggaa aaaaggcatt ctttgttg ttaagtgttt tcgataaatg cacttgtcaa 360

ct

362

<210> 3388  
<211> 370  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D5

<400> 3388

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tacgttagtc ttttattggc tctcttatgc gtaggttctg ctctggctgc tgaattggca 120  
cctggaattg cgaaaaaacc ggtagagaga ggatatgagg aaccctgctg taccgaatat 180  
tgttattggg aagaaatatg tatcacaccc acacccacac ctacaccagc ctactattac 240  
tattattacg caagagatgc aaaacaggaa aatgtcgaga gaagcgtaga aaagagtatc 300  
tcttccgcag aaaaatctga tgccggttcga gggtatttcc ccacgtacta ctattatgag 360  
actcctacat 370

<210> 3389  
<211> 355  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D7

<400> 3389

agcggacgcg tccgcccacg cgtccgcgga cgcgtggta tcccagctac ctgaagcaga 60  
tatgacgagc atttctcgac gccaaatgat tgccaagact tgccgttagcg atgggaggaa 120  
gagcaggaga agagcttatt tttggggatg acaatgtaac ctccggtgcg gaaagtgact 180  
ttacccaagc caccagactt gcagaagcca tggtaacgag gtacggaatg acggataaga 240  
ttggcaaatt tgtgttgggg agagaaacag agagtccgaa aatgaggagt ctcatcgacg 300  
ctgaaatgaa aaagttgctg gacgaagctt acaatcacgc caagcaagtt ttgac 355

<210> 3390  
<211> 397  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-067-Q1-E1-D9  
<400> 3390

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aaactcgaag actatttatt tcttgtagt tttagagaa ttctctagac tgtgttttt 120  
gggcttgtta tacgccatgc ttgggtgtt gtgattggct ctagagacaa agagtattgt 180  
tactttcccg ccattctcca cagctccaac caccaacttg tatacgcata catatacata 240  
accacatatt actcgagagt cgtggtgtaa aaaacgacaa ttcgaatggc tgaaaaggct 300  
tgataaaaaag caaaggacta gtgaagggt tagagaaagc acttgaaaaa gggggccact 360  
tccttgtata tttgtcccc tagtaactaa ctaattc 397

<210> 3391  
<211> 374  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-E11  
<400> 3391

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aggaatgata tctattggac aatctgtga cgctgtgagac ggaagaatca cccatggttg 120  
gagatatgat actttgtaa tatccatatg tcgaaatgaa gcgttggatc atcatgcata 180  
atctgagtga gcacgtcatt gaacatggtt tgcaatggaa aactgcctgt ggtagccatc 240  
gttctttcg cttcacatc ttcgatagtt gtagtatcaa catatgagtt gcctctcggc 300  
gaatacatcg taggtttctc aatcctactc cttacaaggt gtcggttcc cagacattgt 360  
ttgattttat ccat 374

<210> 3392  
<211> 366  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-067-Q1-E1-E2  
<400> 3392

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gcctgcattg cttatgact acagtgcctt gaaaccacat atcgacacta tgactatcaa 120  
cgtacatcac aaggccatc accaaactta tgtcaacaat ttgaatggtg ccatacaagg 180  
gaaacatggg ggtcagttca agggctcttc catcgaaaac atccagagga atgctgaaa 240  
ggcacctgat gctatcaagg cagctgtgag aaataatggc ggtggtcact acaatcattc 300  
cttggggg acactcatgg cacccacagg gatctgaaa tagtgcattt cactgtgagtt 360  
tgaaac 366

<210> 3393  
<211> 345  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E4

<400> 3393

aggcgttatgg gaaaagatta ctacgcaata ctaggcgttag atagaaatgc cgatgaaagt 60  
gctttgaaaa aggcttatcg caaaacttgct gttcagtggc accccgataa gaaccctaata 120  
aataaagagt ttgcagagaa gaaattcaaa gaaatatcgg aagcctacca agtgttgcg 180  
gaccctgaga agaggaagat ttacgatgca tatggagaag aaggcttagc cgcacaaatg 240  
ggaggcggtg gtggtgcaaa tggtgccaa ggtttgggt gattctttc aagtggtgaa 300  
acaacattct tccgaagtac gttcaagat ccggaaagagt tgttc 345

<210> 3394  
<211> 352  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E5

<400> 3394

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catgtcattt caaaaagatg aagaaccaca cgattattta ttcaaaattt ttctcggtgg 120  
cgattccgga gttggcaaat ccaacttgtt gtggcgtttcc accagaaatg agttcacct 180  
cgactcgaaa tccactattt gagtggagtt tgctaccaaa acatttcgtt tggaaagatgg 240  
aaaggtggta aaagcacaga tatggatac cgctggacaa gaacggtaca aagctatcac 300

cgctgcctat tatagaggtg cctttggc tttgttggta tactatatta cc 352

<210> 3395

<211> 393

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E9

<400> 3395

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aggaaggata tccattggtc gatttgtga cgcttgaaac ggaagaagca cccaaagttg 120

gagataagat actttgtaga catccatatg tgaaaaggaa gcgttgtatc atcgttccta 180

ctcgtattga gccgttattt aagttggttt ggaatggaa aatgcctgtg gagccatctt 240

tctttcgct ttgcacatctt cgagagttt gtaagcaaga aatgagttgc ctgcggaaag 300

accatcgtag gtttctaat cctactcctt acaagggtgtc gtttcccag acattgtttg 360

attttatcca tcgtttgtgg ttgaaagaaa ctc 393

<210> 3396

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F11

<400> 3396

agcttttgg actttggatt tgcacgtgtg ggtgtgctca gtcagaactg cttctcagtt 60

agttacgcaa tatgcctagt cataaggaac aaaataaagg aattaaaata tcagctgacg 120

gttacgcact aaagttgagc ggtattcggt tggacgtaga cggcagttt gtcactatgg 180

tggacgcaga cgacctcaga gcccctcatgt ttaaggaaag cctcaaggaa aagtcaaagc 240

tgcacatgaccc aaaatttttca aaaagctatt atgaggagaa taaggactac ttttattata 300

tgactcatac ggagaagaaa atgtttcttt ctctggaaat tgcacgagaa tacgctactc 360

tggtggaaaa ctcgtttctg cagaaat 387

<210> 3397

<211> 363

<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F2

<400> 3397

acgcgtcagc ccaagcgtcc gggcaagtcc aacgtcggtt actgattttgg tggaaataag 60  
ctcctttgt tgggttttt ggatgcaagg cacgtatccg taccgactgt cacttattgg 120  
tcgtacactt ttccacaagt ctgccccaac ccacttttc aattatttaa gagacagtgt 180  
tcaaaaagct agacagcaag aagtggatcg aaaacaattt gagttgttaa aaatacagtg 240  
tgactatatt ttgcaagacc cgccattgaa tccaaacaac tacttagaac tgctgaaaga 300  
agcaagagaa ctctaaaaat tcaaagggtt ccgcgaaaag tttgatgttag taaaacaaga 360  
ccc 363

<210> 3398  
<211> 347  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F7

<400> 3398

agccccacgcg tccgcacatcgaa gacaaaattt tattatggaa cgatatgttt tatgcggaa 60  
atgaaaattt gccgtgtctt acttctggtc gcgatgccgt gatcgaaaac ttgagggaaac 120  
gttttatgcc tggacaaact cgacatcaac gagctcaacg aatgatgaga cttatcgacg 180  
aaagtatcgaa taattggcat actagatggt atgatcgata tcaacgtctg tatacgaaa 240  
ttcattgaga tgtaatgcac aggttgttggaa atattatatt cattttgata tataaaacgt 300  
gtatgtatgg gatatatata tatagatata tatatatatg tattaac 347

<210> 3399  
<211> 314  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F9

<400> 3399

agcacagatt cctgttgata ttcaagtggaa gatttgtcat tataatggaa tatttgtga 60

agaatcgtcc aaagttcccg ttgcagtgat tttaaaagta tttacgatg aagatttgg 120  
tgaagaagat gtgatattga agtggttata ctctgaaaac agaggagtgg gaggaaagg 180  
tgcaaggaac aatgcttcta tgttgggtga gtgggtggag aatgctgaat cagaaaagtga 240  
ttcttcagcc tgattgtgtt gttatgtgag tgcttggttc gtgaaataaa agcgattcct 300  
tgttttctgc accg 314

<210> 3400  
<211> 288  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G2

<400> 3400

cacgcgtcag agaaatccgt taaataatcc gaataccaga ttagttgtta gttatTTAGG 60  
gttggtaac actgcttctg caggTTATT CGGTTATGAT aaagagaaaa gcgagaacgg 120  
gatgttggga agttcctgaa aagggtcttt gttccactgc cgTTGGTGG TGGTTGGTTG 180  
ggaggttttgg tggctatgaa aaagttcac cataagacaa agaaacagag ctttcttcaa 240  
aacgattatg cctgtgttgc agcaaatgtg ggaatgatag gattgggt 288

<210> 3401  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G5

<400> 3401

agtctggaag tgtgcttagga ataagcagga gaagttagaa agagtaggaa aagaagaaaag 60  
gagagggcgt aagacgtgat acagagttagg aagaaaagag aagagagcta gaaaggaggt 120  
aaaagaagag taaaaggact agaagaggta cggAAATTCAc gaggaaggag cgtgaaggaa 180  
ggaggaatcc caagtaatcg aggaagaaaa agcttcggtg aaagcgtgaa cggattttgt 240  
acacactgcc cgtcaagtgc tggaagtgtg ctaggaataa accgagaacc ttacctctcc 300  
aagaagggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa 360  
g 361

<210> 3402  
<211> 365  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G6

<400> 3402

gactccacca gtcaacgatt cgggtgcgt gctgaacacg tttatgacgt aaacgagaat 60  
accaagttgc gttttggtgg gaaagttcct cacgggagaa tcggaccgg cacgatatgt 120  
caactggccgg tatgacgtta cgggttccaa agaagattt ccgataaaacg ttctgtcacg 180  
tgcgatatgt ataagtaacc agtgcacatcg cgatagtcgt gccaaaaaga agtttgaagt 240  
ggacgaggac acttctttat tcttcttagc caaagcttgcgt actcaggaac taacaaaagg 300  
aagttatatt attggtaaag ctggagtgac acgtgacttt cgtttgggtg aagacaactt 360  
tccgg 365

<210> 3403  
<211> 388  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G9

<400> 3403

agccttgtgt gagtgttcct ggagtgaaga cgaaatatga gaatgtgaat gtcgttacag 60  
ttcgtgagaa tacagaagga gaatacagcg gtttggaaaca cgtgggttat ccaggtgtgg 120  
tagaaatgat caaattgatc acgagagaag ctgcgttgcg cggtgctaga tatgctttg 180  
aatatgcgaa gaacaatcaa agaaaaatgg taactgcagt tcataaagca acggtgatga 240  
aacgagcaga tggctcttt ttagaatgtt gtcgagaagt ggctcaagaa tatccgaata 300  
ttcaaatatga agaattgtt atcgatacat gtgctgctcg cttggcacag aatccttcgc 360  
gtttggatgt catggtgatg cccaaattt 388

<210> 3404  
<211> 223  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H12

<400> 3404

agtgagtcgt atcatgcgtc cgcccacgac tccgggacgc atgttcggga ccccattcgg 60  
cggcgacaca caaccgtaaa tgctgactct caggtcgatg acggggagta catgacgaaa 120  
ccaagatcac cgaagcccgaa gtactatatg gagtactgtg tctgcaagca tgcacgtatt 180  
tctaccagat agtgtaaacc gcgtcccttt tgcatatatgt ccc 223

<210> 3405

<211> 381

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H2

<400> 3405

cacgcgtcag ctttgcaatc gatatcttc gttgcttga ctgccaccgt tgccgctgg 60  
tttacaacctt tagttacgag atacaaggcat gtattnagta ttttgagagc tagatggttt 120  
agggacgtgt ttgaagattt gcgcttaaga cttcgagcaa gtgaagccgc cgccataagg 180  
gagagattgg acttgctaga agctaaaata ttgtcttcaa gcaacagcag tagacgttct 240  
gtgcattcgc ctcgtacact tgcagaagag aaaccttattc ctgagtgaaa tctagttacc 300  
agagaagatt tcgttactct tcgaacgaga gttagatgatc tgtccaaaga gttgactagt 360  
atcaagtccc aagctgacaa g 381

<210> 3406

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H4

<400> 3406

gtaagagtaa aacaattccc aagcccaatt aaagtagttt ttttatattt cgctgatatg 60  
cctttgttcc tcaaaacata ttgaaagctt ttgaatgtgt taaagagact gatTTTCTT 120  
tattttgtt ttcgtgctat aatttgtta ttttcctgt ttgtcgccctt tcttcttattt 180  
ctaaaggaca agccttgaa cacgctgtgt tttgtatct ttcctacttg gtttttgca 240

tacgttagtac tggaggagtt ggtgacgggg gtagtcactt tcgtgaaact tgaaaaccta 300  
ataaaagcaat agagcctgta cctgtcgta gtcagtgtaa aacattatca agaaaagttg 360  
gtgtcacgt tatacagagag atggaaagaa tc 392

<210> 3407  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H5  
<400> 3407

agcccacgcg tccgcagaga cttccacaa atgacatgaa tgaagcaagt tgcttcg 60  
aaattgaaag gcattgtatt acataccaag tgtgttgtaa gacttgagtt actgcacatg 120  
ctccttgaa ttgttgcttc cgacaccgtt ttgagtaaaa acttccgaag taactatctc 180  
tttcttgtc cacgaagact tcaaaggccc aaaaacattc gtactttat tgctgcctca 240  
ctatcaagag tattttagg aaactctgtt gttccacag tgaatggcac tcacggtaca 300  
aatattcatc caggaatggc tgtacaccc ttgaagaagg aaacacaaca tctgagagct 360  
cgtcgaatag aagaaaatca agtgttggag gtttc 396

<210> 3408  
<211> 381  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H9  
<400> 3408

agaggatcca gttccttata gtaatagagc agctactttg accaaactag gacaattcccc 60  
ttctgcttta gcagattgtg aaaaatgttt gcagctagat cctcaatttg taagagctta 120  
tgccagaaaa ggtgctattc atttctatat gaaagaatat cataagagtt tggatgccta 180  
tcaacaagga ctcaagtgg atcctaataa tgcaaaattt aaggaaggat tgcagaaaaac 240  
tttgagtgct attgcagaac aacaacgctc cgagaaacct gatgaagaac aaatcaaaca 300  
tgcaatggca gatcctgaaa ttcaaaaat attgatggat cctgtattac aaaatttgtt 360  
acaagaagcg caatcaaatc .c 381

2000 2000 2000 2000 2000

<210> 3409  
<211> 435  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-068-Q1-E1-A2  
  
<400> 3409  
  
aaagaacaac gaagcattc tgattgtcaa ctatccaaag gacgagatga gttgggacaa 60  
cgatggacag cgcctttgga caggcaaaga cttttagaa tatgtcaagt tgagatgggg 120  
aaatcctta tttcgtagaa attgctgtt gtagtaca ggcagttatag tatcttgtga 180  
caactggaaag gttttacaga gttgggttc gtgtgagttt ttgagatcaa tagtacgatt 240  
attttaggtcg ttgcactgct tgaagggtta gaattaggaa tggtaagag tatatccaa 300  
ccatctagta atcaagcaac agttagaagct ctatcccct cgaaaaact gtatccc 360  
aaggatccag taacangaaa gtattggacc gaacgagatt ccaaacgagt aaatccacat 420  
gtttatcc 435  
  
<210> 3410  
<211> 274  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-A3  
  
<400> 3410  
  
cgcgtccatg gaaaaaaaaaaa aaaaatcaga atgataaaaa aaaaaaaaaaag aacaaaaaaaa 60  
atagaaaaaaa aaaaagaaaaaaa aaaaatagaa aaaagcaag actttgtaaa aataaataaa 120  
attgggggtg gggaaaatca ttaattcgt aaaaaattgg tgggtata ataaatcgca 180  
ctatagttatc agtgtgacac tggaaaggtt ttacagagtt gggtttcgtg tgacttgg 240  
agatcaatat taggatttt taggtcggtt cact 274  
  
<210> 3411  
<211> 372  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A6

<400> 3411

agcaaaaacaa caacaacaac aacaaccgtc atcatatctg aaacaacacg tactccacga 60  
acatcgcagt tgggtcggtc tttaactact tgtactatta aggaacctga cccagtattt 120  
cttagttctt ctttcctcc ataacaacaa tgaaaaaac cagcagatgc ttctcggttgg 180  
ttggaaataaa aggttggct gaatttggaaac gtatggaaaa tattccttg cgtgaataat 240  
aaagtgttt tcaacttatt tcttggcata taaaaaaaaaaaaaaaa 300  
aaaaataaaaaa aaaaaaaaaaaa caaaaagaaa aaaacaaaaaa tagcaggaaa aaacaaggac 360  
ggtgctaagg at 372

<210> 3412

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A9

<400> 3412

taaaataacg ggtaaaacca aacaaccgt taaaaattcg cccttctaa aaaaatctc 60  
gacgcacagg gatatgaagt tcccttcaag gtggagccca ttgatgagta ctgcaccaa 120  
caactcaagg aatacgtgg aaataacccg gtttgcgcta tacaggaagg tctgaaattg 180  
gacgaaacat atgaagataa catagagaat gaggaacaaa agaagtctt cgaacagttg 240  
ttcactgtta ttaacgaaat tcttggagac aaagtggaga atgtggtagt ttccgaaaga 300  
cttgcggaat ctccatgtat cttgttacc ggtgaatttg gtttgt 346

<210> 3413

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B1

<400> 3413

acgcgtccac ggacgcgtgg gccaaattct caaaagattt tccttcactt gcaaactatt 60  
ttacatcttt gctacatacc aagtgccatc ctgctgcacg caaaccaaca taaaagactc 120

gaagcgacag ggaaatattt actccacttt tgcgtgaacg gtttttagtc atcctggttc 180  
ctccccagac cctcgcttc caaggtaaca atatcctgga agtcgggttt cgagtcatca 240  
ggcattattc tgtactctgt cttttgcgt agcacattt aagccttgc tc ttgtgaaagt 300  
aatccttctt cgaaaagtgt acgaaaactg cttgcgaat gtttgcgtt attatcacta 360  
agataacggt gatgatacac agaagatgct tgaatttccc tttaaaact 410

<210> 3414

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B2

<400> 3414

cccacgcgtc cgcccacgca tccgcccacg cgtccgcccc ca cgcgtccgcg gacgcgtggg 60  
tggtgttgc acagccactg ttttggaaagg tctggggttt gagttgc ttg gttatgatgt 120  
gtttccta at caagacttta agaatttggg tggtcgat at gtggagttga atgagttgt 180  
ttctcagtcg gatattgtga gtttacattt tccattgaat gagaatacca aacatctcat 240  
ccgtgcagaa acgctttcta taatgaaacc tggagctt at cttatcaata cgagcagagg 300  
agcttgatg gatacgcaag cagtatttga tgctttat at tcaggacata ttggggctt 360  
ggcaaaggat gtat atgaaag gaaaaggaaat cttgtttt 398

<210> 3415

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B6

<400> 3415

ggccgaccca cgcaaccacc cacgcgtccg cccacgcgtc cgggagaaga gagaggaatg 60  
ttggcgttcg tgtatggaca aggccgttgt atactacaac aacagcaaca acactcttta 120  
caaacaagaa ggtgtttcct aggaaaccaa aactat ttttgc tcgggaagaa taatgctact 180  
ggaaaaaaca caaaaacagt agtttcaaa agacgaaaac agttagttagc tgtacagacc 240  
agtcatgtcg acagtctagg ttgcacgagg gaccagaaaa agaatcaagt tgagttacc 300

caagttcctg accagagagg acacttttgt agatatgggg gacaatttgt tccagaaaact 360

ttgttctttt gtttgaaaaa ctttacaaag tgtttcgagg aaaccacaga c 411

<210> 3416

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B9

<400> 3416

tttcttgtgc aatattcatg ctgttgtgt catccgtcaa ctaacactat attgatttt 60

aatggaatag cattttctta gaatccattt gacagacact cctacacgag ctggttatcc 120

aaaacaagat gtgcccttctt accagtgctc atcatcaattt gactcatagt gaaacccaaa 180

agcttcgttt tcccacgtttt gtagatctcc acgttctttt gatacgagca catactagcg 240

atattcaact gtcccaacat gtccttatcc tttagctgtttt gcaaaccacg ttcatctaca 300

atgcatttttta atgagccacc tttttccaaa atgaatcgaa ggatatcattt cgcaattctc 360

acactgagtg tcataatttttta aatgacggag attattttt 397

<210> 3417

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C1

<400> 3417

aaaaaaaaatgt ctgctgaacc ggtggaaag ttaaactctg gtgcaactat tcctttcg 60

ggctttggaa cctggaaagc tgagccttggaa gtgggttgtt aatgtgtgaa aactgcttat 120

gacgtcggtt acagacactt tgactgtgct gctatatac agaatgaaaaa ggaaatttggaa 180

caagctttttt cagaactttt ctccagagga gtgaagagat cagacatattt tgcacttct 240

aaagtgtgga atacctgcca cgatcctcaa agagtggcg aagcttgtaa acaaactctg 300

caagatttac gtctggatta tctagacctt tacttggttc actggccttgc caactggag 360

tttatgggtc tgcttatttttac tgcagataac tggattccta atgataatga tggaaacata 420

aagttttcc

429

<210> 3418  
<211> 358  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C11

<400> 3418

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tatgtatacg ttgaaacgtt ccatttcctc tagttgtaa ttatacagtc aaattctaga 120  
ttctccaata cgttgtctac ttgttgttc cactccgagg cagtcccatt ggaaaaatgtac 180  
gtcttagtcca cgagatgggg aagaagagga aagcagcgtc gactttgtca agtcttatca 240  
gaaaaagttc cgatcctctc attctccttt tttggatttg gaagaggaag gcctgaaaca 300  
aaaggcttct gaagacagaa aagcttttgtt gagagagttt tacaaatatc cagttttt, 358

<210> 3419  
<211> 401  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C3

<400> 3419

agcgagcgaa acgcaatctc acggttctg taccgacaat cgatgaacaa ctcatctgc 60  
atcaaatgtt caaaagaggg tttcgccag aagaagaagt atacatgagt caagttaccg 120  
ttggatcaac tcattttatg cttccagatg aaagaaaatgtt gtatggctt acgtttggag 180  
gagtttaat gcaagagcc tacgaattgg cttcgtcaa caatttttg gcgttcaac 240  
aacgtccaaac ggcagtagaa gttggagata ttatgtttt caaatctgtt ccagtggca 300  
gcattttgga actgcattct tctgttagtgt atacaaaaga tacttatcaa gtatggtag 360  
tggatgcgat ggtgaataat ttgatgcacg accctccaaac c 401

<210> 3420  
<211> 418  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C4

<400> 3420

acccacgcgt ccgattgtt gcaacgacaa gagatgcgcg gctggggct atggagttt 60  
ttgttgtct gtttgtttt gttccacta tccaactccg ttcaacaaga tgaagcgttt 120  
gttcctattg gtcctttcg tgaaaaggat gagcacgcaa cacagcctc acaacctgtt 180  
gtaaaagccac atggtagcaa acactggaag ccgctccagt gtactccaa caaggaaaaa 240  
gcagaggcat tgatacaaaa ggcacaaaat agtttgagtg cgctttctc aaaccggttt 300  
ttcaagcata tagacgtcga aagttgtcaa gagtttagag tggtcgaaat aaagcttgac 360  
gaaaaaggtt tgaatttggtaaatggacaa gagcatatca aggaaagctt tagaatat 418

<210> 3421

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C9

<400> 3421

acgcgtccaa gaaaatggaa ttttcaatc aaaatggtt tcgtcgatg aagaatactt 60  
gtttggatga tggctgccgt gcaactaggc agaacaagaa ttgtgagcgt aactatccaa 120  
atgagaaaatc ctatgcagct tccaagaagc acatatgtaa agaattatccaa 180  
acaactcgatc ttcatccag aaagaaaggg ataccacagc tattcaaaaca caagaagcaa 240  
ttatggagca cagatatcat tcaagtaacg accttcgga ggagagcggt catctaagaa 300  
cccaagatac taacgtgaaa caaaatgagc tggcaaggta ttttagggaa gaatatcaag 360  
ttgcaaagaa caatgtgaca gaaaaagtgg atgactcatc aactcggtt tctttggcac 420  
taatgg 426

<210> 3422

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D1

<400> 3422

agttaccttc acttgtggttt gggattgttgcgcaatgttc aagtcgctag cttttatttc 60

catctatttgc aatatccac gctgcagtag ctcggtgcaa acaaacgcag cacgaacaat 120  
atggaaacct ttattatcaa cgtatcaaca gagactttat tccggaatgt ccgttgatat 180  
tcggtgggtc acttacaaaa accgaaagtc gtacacttca agtatactaa gtttcaagtc 240  
ttcctattcc acacaaggag gagacacgga gggcaagata cctcattcta aagatatgaa 300  
aggagaacct cagtccgctt cagatgctta cgacaagact tgggctaaag aaaacttcaa 360  
agacacttct gaaaatgcag actccgacag ttccaaaatt tgggagttga aactacgtt 420

<210> 3423  
<211> 307  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D10

<400> 3423

acgcgtccac cacgcgtccg taccatcgta tttcatttca cattttctt gtagaaaact 60  
atgaagtctt tcggaattgc tattgtttc ctaagcttg ttattgcattt ttatgcagca 120  
gttgtgtccg aaatggcatc caatgagttt caaagaggag gatacgctcc ttctcattcc 180  
aaggaatgct gcatgaccac ttgtcaatat gcagaacttt gccaaatttc tcaaccaact 240  
tatagccaag ctccatcttta cattccatctt cctacctatg gccaaactcc gtcctacaat 300  
caatatt 307

<210> 3424  
<211> 348  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D12

<400> 3424

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attataactct agcagacact ggaaccaattt atttcgccg ctttctgaat cttcctatgg 120  
aaattgttcc ggaagctaga aatcaaccta tcagattccc tgggtttcgt tctttgtcgt 180  
ttccacaaga aggtcaagga tggagaatgg atcttggaaaga ggagacttcc gacgcgaatt 240  
tcgtgaaagt ttgggtggat gaaaggatg ttattgtact ttagaagatg gtccttaagc 300

attgtttgg caaccataaa gathtagaaa cttctattac caatcaag

348

<210> 3425

<211> 431

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D2

<400> 3425

aggcaactgc agtggaaagga aaacaagaaa cagcaaagga caccaagttg aagaaggcct 60  
ttgacctcaa gtcattcttgg aaggacctgg cagctggagg tgttagctggg gcaatctcca 120  
agacggcggt cgcccctatt gaaagagtga agttgctact tcaagtgcag tattcaaatc 180  
cgcaaatccc ggaggagaaa cgttataaag gcatcatcga ctgtttaca agagttccaa 240  
aggaacaagg gtttatttct ttctggagag ggaacatggc aaacgtcatac cgttacttcc 300  
ctacgcaggc ccttaacttt gcttcaagg acaagtacaa cgccatattc ttggaaggag 360  
ttgacaagaa taagcagttt tggaggtatt tcgttgccaa tcttgctgca tgggtgcag 420  
ctggtgggac t 431

<210> 3426

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D4

<400> 3426

aatcagggaa ttttgtccga gagttgttgtt ctccgtcatg tcttcctgtc ctccagcagc 60  
ttctttcttt ggttatattt gtgctgcaag tgcccttgta ttttcaaatt tgggtgcagc 120  
ttatggtaca gcaaagagtgt gtgttggcgt tgcttcgatg ggtttatgtt gaccggaaact 180  
tggtatgcga tctataattt ctgttagtaat ggctgggtgtt ctaggtatct acggctctcat 240  
cgttgctgtt atttgggtt gacaaatttgc cgaaacgaac tatccatatt ttcttggctt 300  
tgcacacctt gcttctggac tagcacacgg tctcagcggt ctggcggctg gaatttgtat 360  
tggtagttt ggcgacgcac gcgtccgagc tacagctcag cagccaaac tctttgttgg 420  
aatgat 426

<210> 3427  
<211> 424  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-D5  
  
<400> 3427

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ttggcacttg gaccactata gtaatggtag tttgcttattc tttggaaact ccaatcggtt 120  
tatctattgg tattggtatt gcacacactt atcaggaaaa ctcctcggttca tctttgttaa 180  
cgagaggcat tttggatgcc atctccggtg gaattttaat atacacagga ttgggtggagt 240  
tgttgactta ttggcttacg cgcaactcga acttttaag acgcaaagcc atacctattt 300  
tttagtattgt gggatttgc tcggtaggag ccatctgcat ggcgattatc ggagcgtggg 360  
ccttagaata aaatttgttt gagacgtcgt ggtgcacatg actcgcatgt ttggtagttg 420  
gttc 424

<210> 3428  
<211> 429  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-D6  
  
<400> 3428

acccacgcgt ccgtgttttt ggttgtttt ctgttagggca aatatgagtt cctttgatcc 60  
ggacaagttc aaacaagaac aaaaagctcg ctggaatcaa ggagctttat ccacgtggac 120  
cctgtggaaa aaaactcaag tagaagatac tccagcaaag ttcttccttag gcctagtacc 180  
tattcgacca ggagtgaaaa tcttagacct tgccctgtggt agtggggaaa cctcccttca 240  
agttgctcac ctatgttcca gccactaaa ggatgaagcc aaagacgcaa agatagttt 300  
cgttgatatt tcggacgaaa tgcttaaagt tctcaaccaa agagcacagg aaatggggct 360  
agcaaataatg gtggaaaccc gctgtgagga cgccgagaag gtcgactttg gtgcgcacta 420  
ttttgatat 429

<210> 3429

<211> 415  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-E1  
  
<400> 3429

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cgcttccaaa caggcgaaaa caaagcaacc gtagaagcaa aactactgga aatgctacag 120  
agcaaaaagag tccttttgg tggccattta agtttaata ttgttattct agtttgcg 180  
acgaagttcc ttaattacgg aggcaagagc gtaggggtcg aagccttgc ttaacaactc 240  
tatcgccact ttagatgttt ctctgtctag tcccgttcc aaaagtctcg ctatccgt 300  
cgaaaactaaa gactcatgaa ttttttttc ttataggata taatgcctta ctttctaata 360  
tttcgttttt ctttcctct cgttgctcaa aagacaattc gcgtgtctcc aattt 415

<210> 3430  
<211> 171  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-E12  
  
<400> 3430

aagattccgc tggcacgtat accagatgag atgtgagtcc agcagagcca tgcaaagtga 60  
atggcgctgc agttacatcc aaaatgtaag agatgaattt gtgcagaaga gagggccaaa 120  
gtgtgtcaag tcttaccata atggatatg ttttattcaa aagctctcca g 171

<210> 3431  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-E2  
  
<400> 3431

acggacgcgt gggccgaaca atggataacct acttagggtt acaggagaaa cagtaccacg 60  
tgctttgatt aatatgcaca gtccatttct agatgttaac tgctacagtc tagttgtaga 120  
caatcttttc agcactcgct gactcatagt atattgcaa tctttatcg actccacctg 180

acctcccgag gttctgcaga ggtaaccctt tttatcgaaa caaaatgatt ttgcgttag 240  
tgaatggca ttttaactgt ttctgttgat agacttgagt gttgaaagat tccgcagtt 300  
gtcttattag atacagcttgc acaattttgc cggaagtctc aatacgtttc aatgttatcg 360  
actacaatat caatttatcg tgagatggta tgtaaaaccc agtgttttt a 411

<210> 3432

<211> 253

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E3

<400> 3432

aaccacgcgt ccggaacaag ttttatcggtt gctggcagta tatatcttca tcgatggatg 60  
tatatatccc aaattttgtt tctcttaaat actgtgcattc gatatacttg gttcgtatga 120  
ttggatatacg ttgctttgtt ttgctacaaa atacggagag aataaataat agatgtgatt 180  
tccaataaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaacaaaa 240  
aaggaagaag atc 253

<210> 3433

<211> 379

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E5

<400> 3433

aaagcagcat taccgaggac tggctagaag aacttgaacg agttaattga ccttatggtc 60  
ctaccaatac gattgttcaa gtctttcatg accgtcaagt tattcatcga gaattgattc 120  
agcaaggta tcatcctagt gcaagtcata ttccactgac tgggtttgct gcagtctatt 180  
accgtataaa atctagtatt cgactagcag ctcgttttc aggtcaatat acgattcaag 240  
ttttgagcat ttggctaacc accgcataaaa tgatatgatt ggaataagaa cgaattcctc 300  
aatgttaaaa tgggttcacg ttgttagaaaa tatattaca caatagaata ctgctctcct 360  
cattggacga ctttgttatt 379

<210> 3434

卷之三

<211> 383  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-068-Q1-E1-E9  
<400> 3434

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gtcaaaaagt accaggactc cgtggactgt acaactttt agctcgcgtcagataagag 120  
gtgttagaaag agaattgcgc aagtactgac tgagatacga tgaccttctcaacgagcaag 180  
atccggatgt gaaaaaaagct cttgaaatgc tccccgaaca tgagaagcag ttgagagcca 240  
agcgtttat tcgagcgttt gatttgcgttca tgaagaagac tcacttatcc gatgaaataa 300  
cacaaaagga agatatttgg aacccatatt tgagaagtcg catcaagctg attcgtaaaa 360  
aaagcatcc aaatttgagac tta 383

<210> 3435  
<211> 428  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-F1  
  
<400> 3435  
  
agataagtct gtcaagggtgt ggaacattca aaatggtcaa gaggagagga cattgaattg 60  
ttcaggtcat aagaaaggaa atggtgatgg aataacttct gtttcattta gtcctcggttc 120  
tccttatcgt attgcaactg gttcggttggaa aaagacagtg agagtattcg atgttagagac 180  
cggtgaacctt ttgcacaatt ttcgtcaaca tgcagattct gtatattctg ttgccttttc 240  
gagcgatgga agatatctgt tatcagggttc acttgataag aatgttatat tatgggatct 300  
tgcagctccct tctccaaata actataacaat tttcaaaggc catactgact ttgtttgtc 360  
tgtcgcattt agcttagacg gtcgtcttct cttgagtggc agcaaaaacc gtactgtaac 420  
tttctggg 428

<210> 3436  
<211> 406  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-F12

<400> 3436

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tacgaaccag gactgttagta actggcttga gcaagggtgtt tgttcaagta tagttattgt 120  
agtttagag gtttgtgaa ataaaggaaa ggagttgtga gacttaaatt cctatcaacc 180  
gtaaccgagg gaggaaggtg tctttctgac agtggacttc agtggccgca ggtaaggaga 240  
gttgacaggg aagttggagt taagtagcgc agtgtttcaa gttttcggtt tggtttcgta 300  
caagtaacgg cactgctcgt acaatggaa ttccctctgac ctgtcatggc caagtacaag 360  
cgccgaaaaaa gggacaacaagc ttatatgtgg agttgtgggt cacaga 406

<210> 3437

<211> 401

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-068-Q1-E1-F3

<400> 3437

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tcaagtttg tggcccttg ttgtactaga tgtgtaaaca ataccagttt ctgcgtttg 120  
ttttcaaga cccgtccaac tagtgttaag tcactgtcgt tactggcggt agggacaggt 180  
tggaatagaa ggtctttgct caagaccatc tcctgtcttgc ctgcgtttcc cgttttcgt 240  
attttcctg ttcatgtcagc gaataatgaa gaaattgtcc ttcccgatgg agtccgttt 300  
tggttggta aaaaaggtat cggaaaagca tatcctgctg tanggttaaga agatatctat 360  
tacgtttcc tgagatatca agtgtacaca gcgaacttgt t 401

<210> 3438

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G1

<400> 3438

aagagtagta cagtagttt acacgattgg aagaccatga aaccccaagaa cattgttagta 60

aatggttaca tttaaaccca taaaggactt aaaaccggga atctgcaagg aggagaccca 120  
cattggaatt gccaaaagggt ccaagcacta aaattcacca ttggggaaaa ttgggcattg 180  
ttcagggaat tatgacccat ttatgaggat tggattaatc agacaaggaa tttaaaggag 240  
ggaattaagg gaatttttg cc当地acact ttccaccacc accggtaaaa cttttgtcc 300  
aagcttaaac cccacaaact gggtgtaaag gtccattctt aaattaattc taaaaggaa 360  
aggaaa 366

<210> 3439

<211> 451

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-068-Q1-E1-G10

<400> 3439

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gaagttgaga aagaaggcaa tccaaaatgg tttagtgcctc atatgggtt tactggaaat 120  
cgaccttcct cgtgtctctt gatgcctgtc tttagacgcgt atgttacggg acaactttg 180  
ggcctttatg aacatctcac agccgtgcaa ggattcctt gggagattaa ctcatttgat 240  
caatttggag tataattggg aaaagtccctg gcaaataaag ttcgcaagca gttgaacgaa 300  
agcagatatt ttaataaaaga tatctcaggg ttcaatccct ctactacaag tctgctcaat 360  
cgataacttgg aaggttctgt angatgtgct ttcaacatg tttatcatta tgtagtagtt 420  
gtttcggttt ttgggtggagt tgatttttg a 451

<210> 3440

<211> 388

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G11

<400> 3440

aaaagacggt atcgtacctg atattattat caatccacac gcaattccta gtcgaatgac 60  
gattggacag ttgattgagt gtcttcaagg aaaagttct gccattgctg gaagagaagg 120

agatgcaact cccttactt gggttacggt agatgaaata tctcaacagt tgaaagctt 180  
gggttatcaa agtcgtggat gggacttat gtataatgga ttgacaggc gaccgttgg 240  
agcgcatata ttattggac ctacttatta ccaacgacta aaacatatgg tcgatgataa 300  
aatacattct cgtgctcgta gcccgttca aatactcaca agacagccgg tagaaggaag 360  
agctagagaa tgtggattgc gctttgga 388

<210> 3441  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G12  
<400> 3441

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ccgttgcgtt tcatagtccc ttgaacaccc ttattctccg tttgtgcagt agcgtagtt 120  
gtggaagccc cagaagcgtt ttgactttcc agtcttctt tcactgctga agcgtggcgc 180  
gtactttgat actgttgttc accttgagc gcactattga aagccacgtt acatgtttt 240  
caataagtgt cagtgtcccc ctctaattcgc tgtgagaatg gttatggaac ttgttgcttt 300  
tcatacttt cctttcggt aatgcgaatt acatgagaag ccgctcccta aaccattacc 360  
tcagttctgc aaacggaacc aacttacaaa acttacagct cgattgaaag tttt 415

<210> 3442  
<211> 396  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G2  
<400> 3442

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gttgaaggcat tccaaggctg ttcccggtgg tggtgctgta gaaatggagc tttctaaacg 120  
tcttcgagaa tacgccagaa ctattcatgg caagtcgcaa ctgttaatct cgactttgc 180  
aaagtcgcta gaaattattc cacgaacgtt gtgtgagaat gcacggttgg atgcaacaga 240  
cattctgaac aaacttcgag cgagacacgc gaacaatctt ccctatgtag gcattgattt 300

gagcaacggc gaaatatgtg acacgtggaa aagtctcgta tggAACCTT cactactgaa 360  
gtcgaatgtt ttatccgctg ctacagaagc tgcatg

396

<210> 3443  
<211> 411  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-068-Q1-E1-G3  
<400> 3443

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ggagaaaagga gacccaaatt aaggtgagag aatggacgat aaggaactag gcaaaaggat 120  
atgttatctg cggttagaaca tatgaaagaa gcagcaccga ctgttttagca aaaacacagc 180  
actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgccaaa tagtagagaa 240  
gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata gagaatggcg gtcctaacag 300  
taaggatcca aaggtagcga agtaaataga cgttgaaaa gcgttcagta tganaggaga 360  
aacgagtgtta gcactgtcta gtcgtccaaac tcaacgaaac aacaataact g 411

<210> 3444  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-068-Q1-E1-G4  
<400> 3444

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caaagtggag atgttggctc tattggctt gaaatgtata tgaatatatt aaaacagact 120  
ttggatcgac ttggaggaaa gaagattcct gtttgaaag aatgtgaagt agatgttgc 180  
ataccaagtt atataccaga gtcttatatc aagatagaat ctgaaagaat ggcagcttat 240  
cgaacgttga gtcgagtcac cagttgaaa gaaatagatt ggatatccga tagttggaaa 300  
tacaaatatg gcgacttgcc tctctctgtt tctttctac ttgaaataac caaaatccaa 360  
ttgttggcta caaagggttgg tatatctgca atacaaatag aagaagagtt tgtgcaactt 420

a

421

Sequence Data

<210> 3445  
<211> 446  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-G8  
<400> 3445  
  
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aatcatgtcc tactacacac attattctac agccatagat atgtggagtg ctggttgtat 120  
atttgctgaa atgctcaatc atggaagacc gctgttcca ggaatgaatg gtttccatca 180  
gttagacctc attacgaaga tattaggaac tccttcacca gaagatttgc aacatgtaa 240  
gaaccccaag acgaaggagt atttgcagtc tcttcctaga agagcacgaa aaccttttc 300  
ggaaatattc gtgggtgcgg atccccgtgc tttggcgtta ctggAACGTT tacttcagtt 360  
tgatcccacg aagagacctt gtgcgaaaga agcattgcaa gatatttatt tccgtgattt 420  
gtatgaggcc gactgtgaac ttgttg 446  
  
<210> 3446  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-H1  
<400> 3446  
  
aaaaaaatctg aacgagctca tctttggtt ccacagacat gtcgaacgac aatcagtctg 60  
ataagagcac ttgaaagaa gcggacgaga agctgcagag tgcagttcat agtggAACAG 120  
agaaagtttc tcaggtgttg agcgacgtca agggAACTGT gacggagaaa tacaaggaat 180  
ggacagcacc aaaaagttagc caagaagaag cacaagaaca agcacaagaa gcgaaagaag 240  
aggctaataa agcttttaat gctatgacag acagtgcgag tgccgcttca gaggtgcatt 300  
cagagaaagc agaaaaatt aagcaggagt tgaacgagtg aagatacaca gtagtttct 360  
cctataatgt tcttag 376  
  
<210> 3447  
<211> 419

<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-H2  
  
<400> 3447

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acgttgaatc tcaaattctg gaattattag agtatgtaaa ggatgttgct gttgctagaa 120  
tggtttgtaa gcgatggaag agactcgtgg atgaaaattc ccaattgtgg agacgacttc 180  
aaggctttac actaccaaaa cgactgccaa gtgaagcgga aaagtggtat agaaaggcag 240  
cggaatgtgg gaatcgagag gcaatgggc ttcttgcctt gctctattat tatggatatc 300  
agagtcagga tgccacagtt ttgtcttga cgtttcttcg aaatagtgtc gcttgtagt 360  
gcaacgagca ctagtgtcgt tgttgaggtt tttataaata aataaatttg tcctggtg 419

<210> 3448  
<211> 107  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-068-Q1-E1-H4  
  
<400> 3448

atgatgataa gaacaagaaa gctggaggtg cctaaatcgt gagtgttgg gaatttgc 60  
tgtttgggg ttgttagtaacc ggcacccatg taaagatata tacatgt 107

<210> 3449  
<211> 426  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> unsure at all n locations  
<223> Clone ID: LIB190-068-Q1-E1-H5  
  
<400> 3449

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aggtttacga gagaaggaaag tagaaagaag agagtgtaaag gcccgcgtcat aatagaaatc 120  
cgaaaggagt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 180  
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 240

gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 300  
tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc 360  
tgccaaatag tagagaagaa atcgatgaaa gtgaaagcga gtanaagatg aggtatanag 420  
aatggc  
426

<210> 3450

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-H7

<400> 3450

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agtggataat atgttacagc gagtacacaa gctgacgagt atcttgcct ttttatactc 120  
ggcgaaacaa ccgagagtgg actatatcg tgcgtgaggat gaagcaagtt gggaaaagtt 180  
gtggagagga aaacgcgagg tcattggata tactttggaa gcagcttac agaaaacttg 240  
tattgtggaa aaccaattga gggagtggaa aaagaaactc gatagtctag cagacaatta 300  
ttcggtgggt acgagagcct atgatgcgag aatgtggta ttggacctca tcgcaactat 360  
tatgagtgtc tgaaaaat gtttcacaat tctttggta ttatgtccaa 420  
ttgcccc  
427

<210> 3451

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-H9

<400> 3451

gaaagttcca agtcttcctc gatcgaaagt gactcggaaag aactagaatg acattacgga 60  
tatcgataa tgaaagtaag tgtatgcagt tggatttattga tatgtaagag tagagcagcc 120  
ttatgttata gagaacggtc ctggatgag agcaggactg agagtgtatg aagactttat 180  
tattgctgtg gatggcttga ttgtcgagga agacgaagat gagatatctg aatatttaaa 240  
gaagaaaaaca ggacaatatg tcaagctagt ggttggAAC tgcgtggatg aagaggaaag 300

agaggtttcc ttgttgtca acgagccaac taaggagagt gtttagttgg gagtgattgt 360  
acgatatgag tcactttcc acgctacaga atatgtctgg caatgtataa gtgtcgt 417

<210> 3452  
<211> 152  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A10  
<400> 3452

tcgagccacg cgtcagcttc atcttaacgg tacaacaagt gtattttgtt actgcgtttt 60  
gtacggtatg ctgccttatta aattgcattt gtgtgttcag ctcgtgctcg aattttgtgg 120  
tatgctacgg tagcctctcg tagtctgagg tc 152

<210> 3453  
<211> 244  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A2  
<400> 3453

aggcagatat taccgaaata tgccagagag cttgtaaact tgcaatttga gaatcgattc 60  
agaaggaaat tgagcttcaa aaacaaagag aggtcaatcc agactctatg gaagaagaag 120  
ttgatcccgt tctcatgttg acgaggaagc acgttgaatg agagtatgaa gtttgcaga 180  
cgttccgtta accgatgcgg atgtgcgtcg ctatgagatg tacgcgcaaa acatccaagc 240  
tacg 244

<210> 3454  
<211> 138  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A3  
<400> 3454

gtcagggatt agaacatgcc tgcgagttaga aagagatgt a ggcgtatatt tctacctgt 60  
gcaaggcgaag aagtctgaaa tacgacttgt agactgatcg ttttctttt gccaatggtg 120

aaaagagtgt aactcgct

138

<210> 3455  
<211> 305  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A4

<400> 3455

agcccacgca tccgcccacg cgtccggaa aaaaaaaggc gcgacgacgc atgctcaacg 60  
tgggtctac tgctcgcat ttctgtcg tggtcggctt ttacgacga cgacgacatg 120  
gtggttgcctt cctgtcgaaa ccttttgta cttaggttga agaacaagga aaacttata 180  
tatccgaaac cgaagatgtat acccgattag atcgttctt gaaacgccgt attggtaat 240  
tgcctcagtc ttaattagaa aattatatcc gaaaaggatt tgtaaggata aatgggcaat 300  
tatta 305

<210> 3456  
<211> 122  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A8

<400> 3456

cggccccacc cacgcgtcag aagtcacagc aagaacgtga ctgggttttgc tctcagttc 60  
gctctggtaa gcaaccgttg atggttgcta ccgacgtgc tgacgacaggt ttggtaagt 120  
at 122

<210> 3457  
<211> 416  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A9

<400> 3457

agcccacgca tccgcccacg cgtccgcaaa aatatgagca agttgacgtt aacatttttc 60  
ttgttacttg gcattgcagt gtatgttattt gcaggacctt tgaaagattc taccgttagcc 120

tcaaaaagtca gaggatata tagtgcttat actccaactt attcatctcc ttatgaggca 180  
tcataatccta cttatactac ttatccatgg ataaagcctt gtgctgaagc ttgtgccgga 240  
tgcctctatt gctatcaaca atacaatttt tattatcctt atgggcttga tatcctgtac 300  
tgcaacaact ttgacaaata ttgtccagct ggatatgttc gaccatctcc ttatgaatat 360  
tcttcttatt ctcgtggagc atatacttca tcttcttcct atgcgactcc aaccta 416

<210> 3458

<211> 419

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-B11

<400> 3458

acgaggattc tgtgacgtat cctagaggca tcacggccag aggatataac tcagttatat 60  
gaagttctta gacatcgagt gcctaagcga gctccaaagg aagcttaatg acctcgaatt 120  
aacggactat cgtgttcgtt gtcaatttggaa agcttattcc tgtaaacccg caggtttga 180  
caaaaaattt agcaaatcgt tggagcaaag gttgttggaa caacttgaag ctctccaag 240  
ggcattccaa gcgtctcccg tggctcttt agaagaccaa agtgcggca agacattaat 300  
caacccatt tgcacactga acgctgcgca ccaggattac gacttagct cgctgcagct 360  
ttcaagactg aaacgtgtcc aagatgtaca cgcaattcag cagcacgtcg actcgctgt 419

<210> 3459

<211> 264

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-B8

<400> 3459

aggccaagtc accagccacc gttctcggt gatgttcgca agcaaagcaa aagagtggcg 60  
aaaacacccccc gacataagtc cgtggacaaa ctttaaggct tgctttactg gttttggaaac 120  
agctttggca ctttttaccg gttatgttgt tttagaacag gcttattact atttttacaa 180  
gcctacacag acgcaagtcc ccgagacgaa atcggaaagaa cttggctcct gagtttcgtg 240  
ttcttgtaaa gttgggacct cacg 264

<210> 3460  
<211> 414  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-B9  
  
<400> 3460  
  
gcgtcagccc aaacgtccgc ccacgcgtcc gcaaggtagcc aatcgacaac gaatactttc 60  
ttgcaaacat ttccggata ttatgtggaa ggaatgctca caaagcttga aagccttgg 120  
gctttcctcg ttgtacaggt cattttcttt ggagattgcg gagacactag aacaaagaaa 180  
cattttcacc ggcaccaagg ctttggattt tttggcaaag atttcagagg atggtaagta 240  
ttttatggtg gtgtatatat ctatctattt atatgtatgg gatgattgac tatcgctgtg 300  
ggtacgaatt tcacaatggc aagtttgggtt tttggcgtcg aacgattcca ggtcatgtcg 360  
ttattttctc gttcatttgc agcacagtat tttggatatg ctcgctcatg taag 414  
  
<210> 3461  
<211> 253  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-C1  
  
<400> 3461  
  
cgctcagac caaaattaca caccgcgtgt gggtgaccgt gtctgacatg gacgcagacc 60  
agtacagtaa acagccatac ttttggccaa acatgttgct acacggagat caagattcaa 120  
ttttggattc tattccgtta tcaatgcgt aagcacagtg aaacgaacga tataaaactgt 180  
ctgatcgtttt ggtactgtt taaaaatata tctcccgata catctccgtt ggcgtcacta 240  
gtcgatgcat gtc 253  
  
<210> 3462  
<211> 446  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-C10  
  
<400> 3462

aatttacggg ctcgagcacg cgtagttgt gtcgttcaa aaggctccat tgtgggtcca 60  
tcgggtttgg ttgactccaa gacacatatg cctaagaact cacggcttgt tcgttagcaat 120  
ctactatcct tttcgaatga aatggaagac ttgaatatacg attctagtgt tgcatgttct 180  
aggaaaaagc aagttggaag tgcttctcc tactctttat ggcaagaaac acttgatgaa 240  
acagcacaac aacaagacag cgaatcgcc gtggatgaaat tggacaat agatagaaaag 300  
gaatcggaag atattgcagt agtggagaat agagaggaag ttagtgcac acctgattca 360  
ttatcttca aatcttcttc cagttctca cctccaatgg aaagaaaaagt tgctcttcaa 420  
gagataaaaag atacttcca acgagc 446

<210> 3463

<211> 145

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C12

<400> 3463

cgacgcacgc gtaagcccc acgtccgcca gccgtccgcc cacgcgtccg tgtgtttcct 60  
tgtaagaata ggagaacaac cttgaaaaat agctttgtag agagaagagt ttgttttca 120  
gtaaaggcata ttggtacttt acatc 145

<210> 3464

<211> 205

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C2

<400> 3464

gcgtaagccc acgcgtccgc ccacgcgtcc gcggacgcgt gggttggta gaatcttgg 60  
gtaagcacag gatgcacatt ccgtacgttgc ttgtctgtc tcgtatctca tcaattcttt 120  
gaaggatttg ctgtccgtac tagtgtttcc gaagcacact ttggcacgtg gaccactata 180  
gtaatggtac ttgtctgtc ttgg 205

<210> 3465

<211> 399

<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-069-Q1-E1-C4  
<400> 3465

cgcgtcagcc caagcgtccg tgcaccc tacatggac acg aatctcaaga atacttacgc 60  
tgctggtgac tggtgtcgag taagctgata gcaattggtc caagagttgg tgtaacacgc 120  
gtatttgctc tcaatggccg atatagtgag atatttcggc gttggcatta cttgacaatg 180  
gcttgcataa tgtccgactt gatggaaagt tgactttag gcaaagatcg aaagtcttgt 240  
ctagttcag gttggacttag tcagatcgca tgagtactgc aaacattttg cttgtctctt 300  
tgaaggctgg tggagttgg ttaaatctta cctctgcaag tcaggtgttt atattggacc 360  
cattgtggaa tcctgcagtg gaagaacaag ctatcgata 399

<210> 3466  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-069-Q1-E1-D11  
<400> 3466

cccacgcgtc cgagcaagcg tgaaccgtga gggtagttca tcatggttga gacaaaactt 60  
caagatggtg ttagtgcttc tctttggact gttcgctct tcctctacac agttatTTA 120  
gcattctctg ccactatcat tggcttggat ggacgtaaag cagacaacat atggAACGAC 180  
agcttattct atgatggaa gtacattaac ttttgtgctt attctgcctc ttctgttgta 240  
gaaggagggg accatggagc gtgtaaatat gtcatggcgt tggcgctat aagtttgatt 300  
ctagtcTTT tcttggcgt tttcacattt gtagatgcgt tgcgtatccat tcTTTaccAAG 360  
ttttggTTTA ttgaattggg tatcaacgtg tttcaaacaa tgggtggtt ggt 413

<210> 3467  
<211> 205  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-069-Q1-E1-D2  
<400> 3467

cgcgtcacga ttcactgccca tttacttgat ggacagaatg ggaagaagag tgctgtggtt 60  
aactttatta ccaggagtgc tcgttggatg tttcattata ggcttagtt tccggagcta 120  
gcatcatcca tggtccacga acgaatttac attgggggta ccaatacata atacatgtt 180  
tgcggttctg gtacgcgacc ccatg 205

<210> 3468  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-D5  
  
<400> 3468

ccccacgcgtc cgcccacgcg tccgagctac ttcaactgtc caaagtgttt cagactttta 60  
cagaaaaaca attttccctct agcgtctcca agttccagct tcccgatcta ccctatgact 120  
atggcgagtt ggaaccttac atcagtgcag aaatcatgag acttcaccac caaaaaacac 180  
caccaaacct atgtcaacaa cttgaatgtc gcattggaaa agatccacaa ggcagaagaa 240  
gctggtaacg tgggtgatat gatcgcgctg caaaagatgc tcaaattaa tggaggaggt 300  
cacgtcaatc actccattct ttggcacaac ttggctcccg tgaataaagg gggaaaggta 360  
tccccccgat ggaccattct taaaaccagt gaaaaaagaa ttccggctcat tg 412

<210> 3469  
<211> 165  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-D8  
  
<400> 3469

ctcgacgcaa gcgtacacat caggttagga tactcgctga acttatgcat atcattaatc 60  
ggaggaacag ataccaactg gaattccct agtagcggcg agcgatgcgg gaagaggcca 120  
ctatgagaat ccttttttc gtttgagaa tagaggagat gtatt 165

<210> 3470  
<211> 278  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E1  
<400> 3470

cacgcgtcac gcccaagcgt ccgcccacgc gtccggatg ccatccttat tggtaacaagt 60  
agcctattgt attcatgatg tgccacctat atctacctgt gtacgcacta agttctccga 120  
gttttggaga agtcatcactg aggaatggcc caagcaaaag cacatgtgc aagccgatca 180  
aagacaaccg ttgaatgaat tgctcatccg accaagttaa tacagcttga atcgatgccc 240  
tcctccataa aaccatctc gtggcatttt ttttaat 278

<210> 3471  
<211> 240  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-069-Q1-E1-E2  
<400> 3471

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agtggaaacc tctactttt aacttcgag agaagccgag gaagcagcga taaaagcaag 120  
aaacttaacg gaaaggattt aaaagttttt ctgcgaagagt taccagagcg agaagagaga 180  
tatcgaaaaa atggcttcag acaacgatgg agtgactaac ttcgatgaat cctaattgtt 240

<210> 3472  
<211> 253  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E3  
<400> 3472

cccaaggcgtc cggcattata ggagtgattt gagatatgga tagttatcg ttgccagatg 60  
ccaaggcgtt tccaattttt ataaggatcc ttggaggtgt aacgcacgag agaatacagg 120  
aaagaaggaa ccaagtcttg agttgtacca acaaagactt ggttagacttt gggtcggat 180  
tggaaagtgt tgcttccat ggttagcatac ttgccgtagg tagtgaacaa tctttataac 240  
aagccaatgc aca 253

<210> 3473  
<211> 385  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E9

<400> 3473

gcacgcgtca ggacaaacat ttgtcgatca aaatgcttca agttggcttt tcctagaaat 60  
attcgatctc atatgatata cagtgcgtt gaatcgagta cggatagtga tatcgaattt 120  
atatcttatt ccgataataa accatggaat acgagtattt agcaaccaca agagagttgc 180  
cccaactctt ctactcgttag aatactcttta atacttgggt gtatattcgt gctctggcaa 240  
gacatgatta tacatggaat tggtaagtaa atgatggtaa aaagtgtgtc aggatgaattt 300  
gcatactcct ctgcaatgtg aaaactatgc tatcgagtaa ttgtctcaaa acaaggctaa 360  
tggtgtgggt agatgttaacg ttaca 385

<210> 3474  
<211> 417  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F11

<400> 3474

agcaaaaatcc cgaagggtgg gattgttggt gtctccagca gcccgtttgc gtctgtcttc 60  
aaagtataaca atttctttgg ttgttatatt tggatataa aacttggaaat gggcacaaag 120  
aaacaacata ttatgagcgt ttgttaggtac gagagaaaaa agggtgtctt caactgttta 180  
tttcgatga ccacgctgca accgtacgtt tggatgttaa acgcggtagt tttgtgtgt 240  
tttgggttct gtgaaggcctg tctcattaca aaaagtaacg agatacgtgg attttaataa 300  
atatttagcat tggtaagga aacttcactg ttactctgaa caagtggta tagtttcga 360  
cttgcaggg aaaaggcaac agcctgacag ttataagttt gaggcgtcac cagtaaa 417

<210> 3475  
<211> 403  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F2

<400> 3475

agcggacgacg tggcgacg cgtggaaact tggtctgcat gagaattccg accacacgga 60  
atctgaaacc agtgcttga atagtccagt gtttcgggt ccgacaaacc accaagacaa 120  
cgaccaggag cagcatgacc atccatccaa cttttctac aagttacttt ttggagatgc 180  
atctgatgaa gaggaagagc caaagtcgat gaaaggcgtt tcctatgaaa gtacgcata 240  
tgaaaaagat tccacttcgt ttctgtccgt tgctacatca acaaccgata accggaagac 300  
gcaaataatcc gatcattcca ttccatcctc ctccaataaca gatatgagcg attctaacga 360  
gaaacaacag ctttcaaaa gtaatgataa tagtttgaa gaa 403

<210> 3476  
<211> 327  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-F5  
  
<400> 3476

agcccacgacg tccgcccacg cgtccgggtgg gttgtggagt aagtgcgtt ggcaacaaac 60  
taaaagatgg caagaagaat catcgagct taaatgtctg acgctactgt agcgtctcta 120  
tttagtgtga aaatgttggt ctacccatca atacttcgt tctctatcac tattgtgggt 180  
cttatgggtta agagttccga cggtatttgg gttcacagtg ttccagcgaa agacgaatat 240  
tgtgcataaca agtcttcct tcaagtaaac caccacggca tagttccata ttgcaagtat 300  
atcatggctg tagcagctat tggtttg 327

<210> 3477  
<211> 421  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-F9  
  
<400> 3477

aggaggttgc ttcttggtca tccaagacga tcctgaaac attgccatcg ttgttattct 60  
ccgtccatcc acatgtcaaa tacaactccc gagaacccta gtgcagagag actactagaa 120  
tggaaagta cactagtgaa agagttgcaa acgcttcgtt ttccatcacc cgtttcattc 180

atctattctc ctctagagta tgcgtggcct ttgcacgaag aatatgttcg tcgatattat 240  
cgtccaacag cacgtgttt attcggttga atgaatcctg gacctttgg aatggtccaa 300  
agcgggattc cttttggta tgttgttac gtcaaagagt ggctggatat tcgtggcgat 360  
cttgtattca cagcgttacc tgagcgtgtg catcccaagc gacctattt aggactgcat 420  
t  
421

<210> 3478  
<211> 412  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G1

<400> 3478

agaaaagccaa gtgaggaaaa gaaggcaagt agagggcggc ccgagaaagg agagggcgta 60  
agacgtgata cagagtagga agaaaagaga agagagctag aaaggaggta aaagaagagt 120  
aaaaggacta gaagaggtac ggaattcacf aggaaggagc gtgaaggaag gaggaatccc 180  
aagttatcga ggaagaaaaa gcttcggta aagcgtgaac ggattttgtta cacactgcc 240  
gtcaagttct ggaagtgtgc taggaataag cacgagaagt agaagagagt aggaaaagaa 300  
gaaaggaagt gaagacgtaa gacgtaaaaa aaaagcgtaa gacgtgatac agagtaggaa 360  
gaaaagagaa gagagctaga aacgacgtaa aagaagagta aaaggactac aa 412

<210> 3479  
<211> 364  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-069-Q1-E1-G10

<400> 3479

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agaaaagtaa agagattgca agaagataat attttgataa gagcactatc acaaccagga 120  
gatgtatttc tgtgcttttca acatccag ttgtggta atgcagaaag agctattata 180  
ggaaatatta cttgtccaga aagtatcgaa ttgtgtcgat tattagctgg acatatacg 240

gtttggttcg atgaacattt ggatgacttt cgtttggaaag ctatcttggg agcactattg 300  
tgtacttgtt attgtgagtg gaagcgaaaaat tggnggtaca agaatggaat 360  
gaat  
364

<210> 3480  
<211> 413  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G3  
<400> 3480

ggggagggag gaggatgcaa gggttggaaaga aaccagtcat aaccgatgct tttggaaaca 60  
gagtaactta tgtgttgaaa agatatttca acgcacctac tactggagaa gagttgccac 120  
atccgttggg tggcatgtg accgatgcag atacgttggt acggcacaaa gggctggag 180  
aagaaacagc gtattttctg aaagaagacg ctcgcaagtt tgaaaagttt gcaaaaacagt 240  
tgaaaagtgc gttgaattca cggaaactaa tgacaaaaga acaactcaaa gtggccatgg 300  
aacagagagg aataacaagta tctgaagagg gtttagagga cttgcttcgt ccaaaagagc 360  
acattcgaat ctcggatgca agtagcagtg gtacgtaaga acaagctaaa gac 413

<210> 3481  
<211> 400  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-069-Q1-E1-G5  
<400> 3481

ccttgcac agtgtgaagc ttgcagaaag ttgaccaact ttgccagggt ttgcactat 60  
gctcggtcaa aacttctttt gagaagaaac caaatattga gaactaaagt cccgtggta 120  
cttttatgtt gttcgataaa gtcttcggat ttgagaaagg cagacagagt ttgtttttt 180  
gtagctgacg cagctatttt gtcaagtagc actagaaatg agttactgac tgccttgaa 240  
agtctttctt gttgaaaag caccttgga aggttccatt atttcgctgt atccgatgac 300  
agtttggagg aggtggaaag acatatttcc ttgtcagctg gacaagggtt taaaacggaa 360  
gttttgatca ctcctggagg agctcaagtt ttccaacttg 400

<210> 3482  
<211> 280  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-G6  
  
<400> 3482

cggctcgacc cacgcctaca gtgagattcg ggatagactg gaaattatgg caaaaccacg 60  
tgccaacagc agcgtaaaa agatgtgtag caatcggtag agtcaaaaga actgtatgt 120  
aaacagacga gtacatacag taacgtgtca agaaggaaca ggaaagc gag agatcagaca 180  
gacaagggat taaaatgcaa gagatccact acaggaataa gcattgaaag attagatatg 240  
acatacacat ctaaattgac gcgagaatac actatgaatg 280

<210> 3483  
<211> 405  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-G7  
  
<400> 3483

aagaaagagg caaatacggg aaagcagtaa aagaagaaag agaaaggaaa aaactgagta 60  
tcaggaagaa aagagggagt agatgagggaa agaaagatca aagaagtaag agtaagaaaa 120  
agagtaatgt aaatgaaagc aggaaagtat tgaaaaaaga gaatgtaaag cgccctaactt 180  
ttgcaaaaat gttccaacca gtgaaagaag aagcaaaaag aaagaaaaag aagttaccac 240  
gtaagacccg aagctaattg atcctaagct gtccaaagcga agtaaggctg aaccaatatc 300  
tgtggaaaaa gatgttggaaag agatagcata agggggtaaa ggccaatcaa agctaattgtatgat 360  
acctggtaact cctcgaaagc tatataagta tcgtatgcac gaaag 405

<210> 3484  
<211> 252  
<212> DNA  
<213> Cyanidium caldarium  
  
<223> Clone ID: LIB190-069-Q1-E1-G9  
  
<400> 3484

agccccacgcg tccgagtggtt tattgcgact cacaggcctg gatggaaattt gtcgatcatt 60  
gtctttggga atcttagggat tctcatacag cagacagttt agtcaattt gtgtcttcgt 120  
tatgtcttcc ctgagacttg tcagttctt aacaataga a ctccttattc tttcaggctt 180  
tttcaattct ttcaatatga tattttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg 240  
cggaagaaca aa  
252

<210> 3485  
<211> 269  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H1  
<400> 3485

agccccacgcg tccgtttgtt ctgaatcaag gagaagttt tacttgtcca tcgagagctc 60  
ttgttcacga gtccatttac gacaagttt tcgaaaagg gattcaaaga ctggtaaaa 120  
taaagcaagg agatccactc aatttggaga ctatgggg agctcaagta tctactgaac 180  
agatggataa gattcttcac tatgtggaat tggaaagaa ggaagggtgct cagtgtattt 240  
ttggaggaag tgaaaagaaa gccatttggaa  
269

<210> 3486  
<211> 430  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-069-Q1-E1-H12  
<400> 3486

gcgttaagtga caataatgtt gggtcttgg tcgttattga tgttagacgt gatgggttta 60  
gtggaaggcc tttgggtatt gtgacagaaa gagattatct tagaaagata gtactttgg 120  
gacgctcatc caagacaact tatgtaaagg atatcatgac gtctgccaat gatctaatta 180  
gtgtcaaccc tttagttctt ctttagcgaat gtatggaaat aatgactcag aaaagaattc 240  
gtcacattcc ggtaatagat agtgaaggca atgtgaaggg aatggtatcc atangagata 300  
tcgttagaga actagtcgaa gaacaacgac atgaagcgaa gaaactgaat gaatacattc 360  
aggggactta ttaagatggg ctccttcgag gcttgaagtg cttttgttga tttgtgcaca 420

gaataaacat

430

<210> 3487  
<211> 431  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-069-Q1-E1-H4

<400> 3487

gactcaagcg tacgcccacg cgtccggcca cgcgccgga gtggcagcac gtgtgatgta 60  
tatatgagaa agaaaatgat acaagagaga actatcagtg gccctgtgaa agagagcact 120  
gatgctgatc tcagacacac ggttagcagat aggtttacta tagatgtata cattgggtct 180  
aggtacggca gatacgggac cttaatagtgc acatccggat acatgtgccc atgtccaaat 240  
agtacatgan agggtaaaat ccgccttttag cgacgataca cgaaacgggt gtgttagatc 300  
aagatggcca agatgtacca cgctgagaat gaacggttt ccttgagag agtcgtgtac 360  
gatgagtgaa agtgacagcg acgagagttg tgccagtgac gacaagacga taaaaaccttg 420  
caccaagaga c 431

<210> 3488  
<211> 244  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H7

<400> 3488

acgcgtcaga ccaaataaca tgtcgaccca aaacgcagta ggctctccca acttgataag 60  
gagaaatacg gttcacgca gttccggttt aactagttct ggtacgagca cctcggggaa 120  
gtatTTTCC gcgcgactgt ataacgacga agcacccggt ttgagagtgg gaccaacgtc 180  
tgttagggtt tttagctatg tctttaaagc ttttgtgta gtttgcatg tgtggtccaa 240  
gttt 244

<210> 3489  
<211> 409  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-070-Q1-E1-A10  
<400> 3489

acgcgtccaa gcaagcgtga accgtgaggg tagttcatca tggttgagac aaaacttcaa 60  
gatgggttta gtgcttctct ttggactgtt cgtctttcc tctacacagt tatttttagca 120  
ttctctgccca ctatcattgg cttggatgga cgtaaagcag acaacatatg gaacgacagc 180  
ttattctatg atggaaagta cattaacttt tgtgcttatt ctgccttcc tggttagaa 240  
ggaggggacc atggagcgtg taaatatgtc atggcggtgg cgtctataag tttgattcta 300  
gtctttttct tggctttt tacattttaga gatgccttgc atcctattct taccaggaaa 360  
tggttatttgc aattgggtat caacgtgttt caaacaatgt ggtgggtgg 409

<210> 3490  
<211> 209  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-070-Q1-E1-A11  
<400> 3490

atactaagtc gtatcatgag ggtaaatcaa caaagaaaaa gggcgccgt cccaaaaagg 60  
ttcaaaagcct tcataatgga acaggccgac gttcaaccc ctccaaaact gtctacccaa 120  
cttcaattca aaggactgcc tttaaaaag gtcaagccgg gaaaaaccccg ggggttaaccc 180  
aattaaacgc cttgaagaa aatccccctt 209

<210> 3491  
<211> 376  
<212> DNA  
<213> Cyanidium caldarium  
<223> Clone ID: LIB190-070-Q1-E1-A12  
<400> 3491

atgccaattt agaagtgttt tcgaagaatg gggtcatt tgagaacgat gtttacattc 60  
caacggatga gcctcatggc actattaagg caacgttgc aaggcttgc cttgcaaaat 120  
tgtaaagaag cgaaaacgag cgaacatatc acataagtga gcaacaagaa catttattct 180

atccgtata cttcatttt tttcatttg ttcggacatc tcatctctta gcctacattc 240  
caatcgcaac tcttgcgaa actctgcgta ctgtacgtcc ttttcttatta cgttccttc 300  
cttgtattct ggagtttagaa accaagtaac gatgaccccc agaaaacgcga ctcctgtgt 360  
aacaaactgc agattt  
376

<210> 3492  
<211> 425  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-070-Q1-E1-A2

<400> 3492

agataaggag atttgttgg gtgtgactgg cagtatgcag acagaagcac agtagcgga 60  
tagtgcacta acaaacataa gaaagagaaa caccgatgaa gaaagcggag gaggggaaga 120  
agcgagaaag gagaccacct atgggtttagg tggtgcttat atggatatgg caggcgtcaa 180  
tggccatgga aatccacatt tacaacatgc caacttacct ccagcaatga gacattttcg 240  
caacgttgca gggaaaccgg ctatattggc actctctgct tttcaacgg gagcttgg 300  
tcttggtatt gtgaatgtan gactcatttc ttccgaggtt ctccctactg tagcacctcc 360  
agccttttt tacagtggat tttgtcaaat tggctggaa atcctaactt ttgccaataa 420  
tgaca  
425

<210> 3493  
<211> 339  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-A4

<400> 3493

acggacggtg gggctccac caagagagtt gcaaagaaac taatggattt actttgaaat 60  
gtcgcgaaag tgacaatacg acttgcttga gaaaaagcaa gaaactgaag tccgagctt 120  
gttactactt tactcggtt ggtgttgca atgacaagca atgtcgctt gttcacgacc 180  
ccgaaaaggt ttctgtatgt cgaaagttt ttagcggttc atgtatcgat cccaaactgca 240  
cactactgca cactacagaa aaggatacgc ttcctgtgt tttaatgttc ctaagtggat 300

tatgtggaaa ggagaactgt ccttcgttc acgttaatg

339

<210> 3494  
<211> 415  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-A9

<400> 3494

aggcttggtt agtactgagg tgagggatca ctcgggaacc ccaagtgccg tacgaaaa 60  
caatttctct tgtataaggaa agaaagtatac tgagaagaat tcaggcagcg ttgaaaattt 120  
ttcaagtatt tcgcgagtaa taatatgtgc taaaatattt ttctactact agaggttctt 180  
tttgcttgcac gctgtttgaa aacaacggaa tgaatcttgc cctgaccggc cgatatggcc 240  
aagggatgac tctaacaggt atccaatgac ttatgtttc catcgatga caagaggctt 300  
gttggtaaa agtagcggat atgtttgtg cagattgtgt cgtgcttaag ttgctcactt 360  
tcctgctgac caagaggttt gaaaacctgc agtctaaaga gcaatatgtt ctcac 415

<210> 3495  
<211> 350  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-070-Q1-E1-B1

<400> 3495

acgcgtcgcac caagcgtcgg ccaaggcttc ggcggaccct tggccggccc cttgggtcat 60  
tcattcagtt ctgccccaac caaccaaaca cttcaaaaga aacttcaagg tgccggaaaa 120  
gccttattgg tatggttta aatagatgcc gctacccatc tctttgtga gctccctttt 180  
gtagtcattt ctttaacaac cacggtaac caagcaaccc attggctgc catattatgg 240  
aaggaatatg ctaaagcggta ttcacgttgg ggtagatttc atgactgcac gggggctt 300  
gnagtgccta cctctatttt atggggctt ttatcttag cttgtgcgtt 350

<210> 3496  
<211> 205  
<212> DNA

<213> Cyanidium caldarium  
<223> Clone ID: LIB190-070-Q1-E1-B11  
<400> 3496

aaggaaaaag tatttcttca agtggcagaa agtttaaatg aaaaagtcta tgtagataaa 60  
agaaaagtatc gaatttttag tcatcttcg ttaccagaac atatccaggg tttgttaact 120  
acggaagcct gtgcttcacg cctacacgtt gtggacatga gaagtgtcag ttttagtgaa 180  
atgaaaagaaa attcccaaaa atatg 205

<210> 3497  
<211> 390  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-B12  
<400> 3497

aaccaggcgt ccggattgt a cgaatattcc gacatatgtc tagtgtggcag ctgcacatctgg 60  
tacgaaagca tcacagaata taattgcgag ctcaagagc caacatgatt gccaaatcaa 120  
gtgctgttca tcgacgcctt tgtagcctct ggatatttcc attgttcctg gtgttgttt 180  
taccgatcct caagttgcta cagtcggaat gaccgagcag caagccaagt atgccggcat 240  
agataactgat agtcgagttt ttcatttttgc tcataatccct cgggcaatttga 300  
tgaacgtgag tggatcaagt tggtgataga taaacagagt ctcttacttg ttggagctac 360  
aatcgccccca ccttgtggaa gagaaatgaa 390

<210> 3498  
<211> 333  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-070-Q1-E1-B2

<400> 3498

aaattatggc gtccgttaca accaaggata atttaatttg gtttggaaatg tcctttccct 60  
taaaaaatcca aaccggagga aacgggttggc caaaaaagg acacganaag tcaatttcnt 120  
aaganagacg cttcaaaaca atctataaga tggcgactca tctagaccct ctgtatTTG 180

ccacaagagt gtttacgag attgaatggg aacttgttct attcaccata gtcgctgcac 240  
cttggtgaca ccaaaataaa aggacgaaca agaaattttg ctatgccaga aacaagcata 300  
aaaactgagc gactgggtgg taaaaacaag cac 333

<210> 3499  
<211> 361  
<212> DNA  
<213> Cyanidium caldarium

<223> unsure at all n locations  
<223> Clone ID: LIB190-070-Q1-E1-B3  
  
<400> 3499

cccccaaaaa atgttatccg gaatccatac aagttattat tacaataata attatcctaa 60  
aaggaatcaa cggttaataac cttgtgggtt gttggaattc ttattcaggt gagaaagctt 120  
taaagatagc ttctgaaata agctattctt tggtagaagt acctgtcata gaccccttgc 180  
ttgatactca agctacccaaa caactcgca gacaaggatgg cttacgatttgc tcatgttctg 240  
tangattatc ccaagacaca gatataagta gtttggatga gtctacaagg aaacaaggag 300  
aacaagtact gatgaccgca gtggaaagag cacacgctat tggctctccg atagtttgc 360  
g 361

<210> 3500  
<211> 152  
<212> DNA  
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-B4  
<400> 3500

ccttggtaa aattgtgtta atgaaaaattt gattccggac aaacaactta aagaaacaag 60  
gaattaccaa gacctggaaa attaaaacca attaccccaa ttaccaaacc atccaaaaaaaa 120  
attacaaaag gataagccaa actttaacct tt 152

<210> 3501  
<211> 392  
<212> DNA  
<213> Cyanidium caldarium